CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, May 27, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(denotes that this work is advertised in Engineering News.)*

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	See Issue.
5-28*	Smoke stack, Atlantic City, N. J. (S.)	5-13
5-31	Theater, etc., Atlanta, Ga. (P.&S.)	5-13
6- 1*	Dredging, Baltimore, Md. (S.)	5- 6
6- 1*	Pipe and specials, Philippines. (P. & S.)	3-25
6- 1	Pipe, etc., Osawatomie, Kan. (S.)	5-20
6- 2*	Pipe, Springfield, Mass. (S.)	5- 7
6- 4	Dredging, Los Angeles, Cal. (S.)	5-13
6- 5	Coal-conveyor system, Key West, Fla. (S.)	5- 6
6- 7	Dredging, Baltimore, Md. (S.)	5-20
6- 7	Standpipe, Syracuse, N. Y. (P.& S.)	5-27
6- 8*	Abutment, piers, etc., Wheeling, W. Va. (S.)	5- 6
6- 9	High-pressure mains, New York (P. & S.)	5-27
6-10	Theater, Houston, Tex. (P. & S.)	5-20
6-10*	Jetty, Galveston, Tex. (S.)	5-20
6-15*	Dredging, New Haven, Conn. (S.)	5-27
6-19	Dikes, Vallejo, Cal. (S.)	5-13
6-26	Boilers, etc., Vallejo, Cal. (S.)	5-20
6-26	Power plant piping, Boston, Mass. (S.)	5-27
6-26	Air compressors, Wash., D. C. (S.)	5-27

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

5-28	Gas mains, Augusta, Me.	5-27
5-28	Elec. machinery, Kamloops, B. C.	5-27
5-31	Elec. equip., Schuylkill Haven, Pa.	5-13
6- 1	Lighting, Bridgeport, Ohio	4-22
6- 1	Power plant, Bellefonte, Pa.	5-20
6- 1	Electric equip., New York	5-20
6- 1	Lamps, New York, N. Y.	5-27
6- 2	Lighting, Akron, Ohio	5-20
6- 8	Lighting, Vincennes, Ind.	5-13
6- 7	Elec. equipment, New York	5-27
6- 7	Lamps, lighting, New York	5-27
6- 9*	Lighting, Middletown, N. Y.	5-27
6-14	Cable, Boston, Mass.	5-20
6-15	Lighting, Ft. Totten, N. Y.	5-27
6-15	Lighting, Ft. Hamilton, N. Y.	5-27
6-15	Power plent, Ft. Leavenworth, Kan.	5-27
6-19*	Gas holder, Kingston, Ont.	5-27
6-21*	Heating plant, Ft. Sill, Okla.	5-27
6-26	Turbo-alternators, New York	5-27
6-26	Power plant, Boston, Mass.	5-27
6-26	Power equip., Bremerton, Wash.	5-27
6-26	Boilers, etc., Vallejo, Cal.	5-20
7- 1*	Lighting, Boston, Mass.	5- 6

BRIDGES.

5-28	Bridge, Topeka, Kan.	5-27
5-29	Bridges, Scottsville, Ky.	5-27
5-29	Bridge, Franklin, Pa.	5-13
5-29	Bridge, Ellerton, Ohio	5-13
5-29	Bridges, Mountain, Ont.	5-20
5-29	Bridge, Findlay, Ohio	5-20
5-31	Bridge, Fremont, Ohio	5-20
5-31	Bridge work, Ottawa, Ont.	5-13
5-31	Bridge, Appleton, Wis.	5-27
6- 1	Bridges, Alma, Neb.	5-27
6- 1	Bridge, Machanicsburg, Ohio	5-27
6- 1	Bridges, Toronto, Ont.	5-13
6- 2	Bridge work, Pittsburg, Pa.	5-20
6- 3	Bridge work, New York	5-27
6- 4	Bridge, Cincinnati, Ohio	5-20
6- 4	Superstructure, Toledo, Ohio	5-13
6- 5	Bridge work, Cleveland, Ohio	5-13
6- 5	Superstructure, Dayton, Ohio	5-27
6- 7	Bridges, Columbus, Ind.	5-27
6- 7	Bridges, Bluffton, Ind.	5-27
6- 7	Bridge, Indianapolis, Ind.	5-20
6- 8	Bridges, Mexico, Mo.	5-27
6- 8	Bridges, Britton, S. Dak.	5-27
6- 8	Bridges, Vincennes, Ind.	5-27
6- 8	Bridge work, Upper Sandusky, O.	5-27
6- 9	Bridge, Hinsdale, Mont.	5-20
6- 9*	Bridges, etc., Philadelphia, Pa.	5-13
6- 9	Removing bridge, etc., Marietta, Wash.	5-20
6-15*	Bridge work, Philadelphia, Pa.	5-20
6-17	Bridge repair, New York	5-27
6-18	Bridge, Cincinnati, Ohio	5-27
7- 1	Bridge, Toledo, Ohio	4-29
7-10	Bridge, Hailey, Idaho	5-20

BUILDINGS.

5-28	School, Cleveland Heights, O.	5- 6
5-28	Heating, laundry, New York	5-20
5-29*	Post-office, San Angelo, Tex.	4-29
5-29	School, Springfield, Mass.	5-27
5-30	Dormitory, Indianapolis, Ind.	5- 6
5-31	Post-office, Texarkana, Tex.	4-29
5-31	Buildings, Ft. Crocket, Tex.	5-13
5-31	Buildings, Victoria, B. C.	5-13
5-31	School, Medicine Hat, Alta.	5-27
6- 1	School, Ft. Wayne, Ind.	5-13
6- 1	Schools, New York	5-20
6- 1	Heating, New York	5-20
6- 2	Post-office, Danville, Ky.	5-20
6- 2	Armories, New York	5-27
6- 2	Town hall, Elmwood Place, O.	5-27
6- 3	Quarters, Ft. Andrews, Mass.	5-27
6- 3	Hospital, Indianapolis, Ind.	5-20
6- 3*	Quarters, Ft. Andrews, Mass.	5- 6
6- 4	School, Painsville, Ohio	5-20
6- 5	Building, Richmond, Va.	5-20
6- 5	School, Springfield, Ohio	5-20
6- 6	Court-house, Lethbridge, Alta.	5-27
6- 7	Schools, New York	5-27
6- 7	Asylum, Rome, N. Y.	5-27
6- 7	Schools, Ft. Wayne, Ind.	5-20
6- 7*	Post-office, etc., Fernandina, Fla.	5- 6
6- 7	Quarters, Ft. H. G. Wright, N. Y.	5-13
6- 9	Post-office, Clifton Forge, Va.	5-13
6- 9*	Vacuum system, Detroit, Mich.	5-20
6- 9	Buildings, Ft. Slocum, N. Y.	5-20
6- 9	Heating, etc., Ft. Crook, Neb.	5-27
6- 9	Buildings, Ft. Wingate, N. Mex.	5-27
6-10*	Quarters, Boston, Mass.	5-27
6-10*	Quarters, etc., Fort Sill, Okla.	5-13
6-11*	Heating, etc., Lead, S. Dak.	5-27
6-15	School, Alexandria, La.	5-13
6-15	Post-office, Mayfield, Ky.	5-13
6-15	School, Montgomery, Ala.	5-13
6-16*	Post-office, London, Ky.	5-20
6-19	Buildings, Carthage, Ohio	5-27
6-21	Post-office, Gulfport, Miss.	5-27
6-28*	Interior work, San Francisco, Cal.	5-27
6-30*	Post-office, Moscow, Idaho	5 27
6-31	Masonic temple, Athens, Ohio	5-20
7-15*	Buildings, China (Foreign)	5-27

WATER-WORKS.

5-28*	Smokestack, Atlantic City, N. J.	5-13
5-28	Water mains, Ft. Leavenworth, Kan.	5-27
5-29*	Dam, etc., Bethel, Conn.	5-20
6- 1	Pipe, etc., Osowatomie, Kan.	5-20
6- 1*	Gate-house, etc., Louisville, Ky.	5-20
6- 1	Conduit, New York	5-20
6- 1	Water bonds, Parkersburg, W. Va.	5-13
6- 1	Water impvt. bonds, Cincinnati, Ohio	5-13
6- 1	Water-works, sale, Lawrenceville, Va.	4-29
6- 1*	Pipe and specials, Philippines (U. S. Poss.)	3-25
6- 1	Water-works, Gaffney, S. C.	5-27
6- 1	Well, Leon Springs, Tex.	5-27
6- 1*	Water main, Glencoe, Ill.	5-27
6- 2*	Pipe, Springfield, Mass.	5- 6
6- 2	Water piping, Vancouver, B. C.	5-13
6- 3	Water pipe, etc., Carthage, Mo.	5-27
6- 4	Water lines, Ft. Stevens, Ore.	5-27
6- 4*	Cisterns, Fort Morgan, Ala.	5-13
6- 7	Water tank, Minerva, Ohio	5-20
6- 7	Reservoir, Jasper, Ind.	5-27
6- 7*	Pipe, etc., Hartshorne, Okla.	5-27
6- 7	Standpipe, Syracuse, N. Y.	5-27
6- 8	Mains, Fort Riley, Kan.	5-27
6- 8*	W.-wks. additions, Norway, Mich	5-20
6- 8	Boiler, National Soldiers' Home, Tenn.	5-13
6- 9	Hydrants, San Francisco, Cal.	4-29
6- 9*	Reservoirs, Clearfield, Pa.	5-20
6- 9	Mains, New York	5-20
6- 9	Well, etc., Columbus, Ohio	5-20
6- 9	High-pressure mains, New York	5-27
6-11	Filter-house, Plattsburg Barracks, N. Y.	5-27
6-11	Water-works, St. Edward, Neb.	5-27
6-14	Water-works, Plainville, Kan.	5-27
6-14*	Pumps, etc., Peterborough, Ont.	5-13
6-14	Canal, etc., Porto Rico (U. S. Possess.)	5-13
6-15*	Pipe, etc., Cheyenne, Wyo.	5-27
6-15*	Pipe, etc., Okemah, Okla.	5-27
7- 1*	Valves, hydrants, Manila	5- 6
7-10*	Wasteway, Sunnyside, Wash.	5-27

SEWERS.

5-27	Sewers, Newark, N. J.	5-27
5-27	Sewers, Canton, Ohio	5-27
5-27	Sewer, Akron, Ohio	5-27
5-28	Sewers, Youngstown, Ohio	5-27
5-28*	Sewer outlet, Fort Hancock, N. J.	5-13
5-28	Sewer, Seattle, Wash.	5-13
5-28	Sewer, Wadsworth, Ohio	5-20
5-28*	Sewer, Louisville, Ky.	5-13
5-31	Sewer, Houston, Tex.	5-20
5-31	Sewer, Appleton, Wis.	5-27
5-31	Sewer pipe, Casper, Wyo.	5-27
6- 1	Sewer, Waterville, Me.	5-27
6- 1	Sewer system, Gaffney, S. C.	5-27
6- 1	Sewers, Sacramento, Cal.	5-27
6- 1*	Purification works, Indiana, Pa.	5-13
6- 1	Sewer system, Marietta, Ga.	5-13
6- 1	Sewers, Clearwater, Fla.	5-13
6- 1*	Sewer, Glencoe, Ill.	5-27
6- 2	Sewers, Brooklyn, N. Y.	5-20
6- 4*	Sewer, Louisville, Ky.	5-20
6- 4	Sewer, North Braddock, Pa.	5-27
6- 5	Sewerage system, Marietta, Ga.	5-20
6- 7	Sewers, Newburgh, Ohio	5-27
6- 8	Sewer, Toronto, Ont.	5-20
6- 9	Sewer, Hoboken, N. J.	5-27
6- 9*	Sewer, Toronto, Ont.	5- 6
6-10	Sewers, Albert Lea, Minn.	5-13
6-14*	Sewers, Wash., D. C.	5-27
6-15	Pipe sewer, Plymouth, Wis.	5-20
7-10*	Sewers, Albuquerque, N. Mex.	5-27

STREETS AND ROADS.

5-27	Roadway, Bayonne, N. J.	5-27
5-27	Highway, Baltimore, Md.	5-27
5-28	Resurfacing, Williamsport, Pa.	5-27
5-28	Grading, etc., Fort Monroe, Va.	5-13
5-28	Avenue extension, Cincinnati, Ohio	5-13
5-28	Grading, Salt Lake City, Utah	5-20
5-28	Driveways, Des Moines, Iowa	5-20
5-28	Paving, Greenville, Ohio	5-20
5-29	Grading, etc., Cleveland, Ohio	5-20
5-29	Road, Pembroke, N. H.	5-27
5-29	Repairing pavements, Scranton, Pa.	5-27
5-29	Roadway, etc., Scottsville, Ky.	5-27
5-29	Paving, Newark, Ohio	5-27
5-31	Road, Carlisle, Pa.	5-27
5-31	Sidewalks, Appleton, Wis.	5-27
6- 1	Paving, Amsterdam, N. Y.	5-27
6- 1*	Street impvt., Bayonne, N. J.	5-27
6- 1	Roads, etc., Ft. Washington, Md.	5-27
6- 1	Road, Hamilton, Ohio	5-27
6- 1	Paving, Burlington, Wis.	5-27
6- 1*	Sidewalks, Glencoe, Ill.	5-27
6- 1*	Grading, etc., Pensacola, Fla.	5- 6
6- 1	Regulating, etc., New Brighton, N. Y	5-20
6- 1	Drive extension, New York	5-20
6- 1*	Curb, etc., Jackson, Tenn.	5-13
6- 2*	Grading, etc., Elmira, N. Y.	5-20
6- 2	Macadamizing, Columbus, Ohio	5-20
6- 2	Highways, Providence, R. I.	5-27
6- 3*	Paving, Geneva, N. Y.	5-27
6- 3	Paving, Wooster, Ohio	5-27
6- 3	Macadam, etc., Fulton, Mo.	5-20
6- 4	Paving, etc., Selma, Ala.	5-27
6- 7	Cement walks, etc., Grand Forks, N. Dak.	5-27
6- 7	Street impvt., White Bear Lake, Minn	5-20
6- 7	Roads, Indianapolis, Ind.	5-20
6- 7	Grading, etc., Montclair, N. J.	5-20
6- 7	Road, Brookville, Ind.	5-13
6- 7	Road, Vernon, Ind.	5-13
6- 7	Road, Liberty, Ind.	5-13
6- 7	Grading, Lawrence, Kan.	5-20
6- 8	Road, Vincennes, Ind.	5-13
6- 8	Roads, Indianapolis, Ind.	5-20
6- 8*	Road, Ocean City, N. J.	5-27
6- 9*	Road, Camden, N. J.	5-27
6- 9	Road, Freehold, N. J.	5-27
6- 9	Grading, etc., Atlantic City, N. J.	5-27
6- 9	Roads, Indianapolis, Ind.	5-20
6-10*	Stone road, Elizabeth, N. J.	5-20
6-10	Terrace grading, etc., Fort Leavenworth, Kan.	5-27
6-11	Tervia, Cincinnati, Ohio	5-27
6-12*	Grading, etc., Somerville, N. J.	5-27
6-15*	Grading, etc., Havre de Grace, Md.	5-27
6-15	Grading, etc., Piqua, Ohio	5-20

MISCELLANEOUS.

5-28*	Light-house, Cleveland, Ohio	5- 6
5-28*	Smoke stack, Atlantic City, N. J.	5-13
5-31	Cement testing appar., Atlanta, Ga	5-13
5-31	Dredging, Fort Moultrie S. C.	5-13
5-31	Wells, etc., Moose Jaw, Sask.	5-20
5-31	Telephones, Belmont, Man.	5-27
6- 1	Floating baths, New York	5-27
6- 1	Ditch, Frankfort, Ind.	5-27
6- 1*	Towboat, New Orleans, La.	5- 6
6- 1*	Dredging, Baltimore, Md.	4-29
6- 1*	Dredging, Baltimore, Md.	5- 6
6- 1	Supplies, Benicia, Cal.	5-20
6- 2	Coping, Washington, D. C.	5-20
6- 2	Dredging, New York	5-20
6- 2	Steamer alterations, New York	5-27
6- 3	Tree guards, etc., New York	5-27
6- 3	Park, New York	5-27
6- 3	Shelter station, New York	5-27
6- 3	Ditch, Rensselaer, Ind.	5-27
6- 3*	Dredging, Jacksonville, Fla.	5-20
6- 4	Dredging, Los Angeles, Cal.	5-13
6- 4	Dredging, Portland, Me.	5-27
6- 4	Wharves, Ft. William, Ont.	5-27
6- 5	Coal-conveyor system, Key West, Fla.	5- 6
6- 7	Dredging, Baltimore, Md.	5-20
6- 7*	Stone, etc., Superior, Wis.	5-13
6- 7	Repairing ferryboats, New York	5-27
6- 8*	Dredging, New York	5-27
6- 8*	Abutment, piers, etc., Wheeling, W. Va	5-13
6- 8*	Riprap, Ashland, Wis.	5-13
6- 9	Air compressor, Atlanta, Ga.	5-13
6- 9	Compressor plant, Brownsville, Pa.	5-20
6- 9	Sweeping machines, New York	5-27
6-10	Seawall, San Francisco, Cal.	5-20
6-10*	Jetty, Galveston, Tex.	5-13
6-11	Dredging, Chicago, Ill.	5-27
6-14*	Canal, Porto Rico (U. S. Poss.)	5- 6
6-15*	Light system, Ft. Totten, N. Y.	5-20
6-15	Steamers, Wash., D. C.	5-27
6-15	Dredging, New Haven, Conn.	5-27
6-16*	Abutment, piers, etc., Wheeling, W. Va.	5-20
6-16*	Light station, Wilmington, Del.	5-20
6-19	Dikes, Vallejo, Cal.	5-13
6-21*	Cement, Cincinnati, Ohio	5-27
6-22	Retaining walls, New York	5-27
6-22*	Barge Canal, Albany, N. Y.	5-27
6-24*	Dredging, New York	5-27
6-25*	Seawall, New York	5-27
6-26	Air compressors, Wash., D. C.	5-27
6-28*	Dredging, Port Chester, N. Y.	5-27
6-28*	Causeway, Galveston, Tex.	5- 6
6-29*	Supplies, Panama	5-27
7- 9	Drilling machines, Transvaal (Foreign)	5-27

EXAMINATIONS.

6- 2	Inspector of Hulls, Galveston, Tex.	5-27
6- 9	Elec. Expert, Wash., D. C.	5-27
6-16	Steam Engr., Macon, Ga.	5-27

RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

AKRON, CANTON & YOUNGSTOWN.—We are officially advised that contracts will be let soon for building the first section of this railway, 7½ miles, from Akron to Mogadore, for which right-of-way is secured. Complete contract will be let as soon as final surveys east of Mogadore are completed, twelve miles with sidings. This line will be 48½ miles in length when completed and will connect Akron, Ohio, with Youngstown. Surveys have been run and right-of-way partly obtained. Z. W. Davis is Pres., Canton, Ohio; Z. T. Herndon, Akron, is Ch. Engr.

ALABAMA.—The Comer (Ala.) Commercial Club and local citizens have subscribed $82,600 to encourage the building of a north and south railroad through Comer and the adjoining country. The organization of a company is contemplated. J. A. Shunk is Secy.

ALGOMA CENTRAL & HUDSON BAY.—See Manitoulon & North Shore Ry.

APALACHICOLA NORTHERN.—Contract has been let to the MOREY ENGINEERING & CONSTRUCTION CO., 1212 Chemical Bldg., St. Louis, Mo., (also at Apalachicola, Fla.), for the extension from Apalachicola, Fla., to St. Joseph Bay, 20 miles; also for building docks at St. Joseph's Bay. Date not set for opening bids for the construction and equipment. R. B. Coleman is Gen. Mgr. of the railroad company at Apalachicola, Fla.

BALTIMORE & OHIO.—ALLEN & KEEFAUVER, of Parkersburg, W. Va., have been awarded a contract for improvements at Grafton, W. Va.

CANADIAN NORTHERN.—The following contracts have been awarded for lines to be constructed in Western Canada this year: To the NORTHERN CONSTRUCTION CO., Winnipeg, for lines from Vegreville to Calgary, Alta., 235 miles; Goose Lake extension, 100 miles; Morinville branch, 50 miles; eastward from Ochre River, 20 miles; westward from Rapid City, Man., 30 miles. To the COWAN CONSTRUCTION CO., Winnipeg, Man., the Maryville extension southwest, 125 miles; the Prince Albert branch, 30 miles; the Oak Point branch, 20 miles; the Roseburn extension, 30 miles. The Prince Albert branch will eventually be built through to Battleford, Sask.

Contract for a 12-mile extension, westward from Wakopa, Alta., has been let to N. K. BOLT, Calgary, Alta.

The proposed route of the Canadian Northern Railway from the city of Edmonton to Vancouver and New Westminster has been approved of by the Department of Railways and Canals, it is announced.

FARMERS & STOCKGROWERS RY.—This company, which was incorporated in Kansas with $100,000 capital, will build a railway from a point in Pratt County west through Edwards, Kiowa, Ford, Gray, Haskell, Grant and Stanton Counties to the Colorado state line, about 200 miles. G. C. Brown is Pres., Plains, Kan.; J. N. Brown, J. H. Collingwood, J. R. Bolin and J. R. George are incorporators.

HAMPSHIRE SOUTHERN.—The contract for the construction of this line from Romney, W. Va., where it will connect with the Baltimore & Ohio, through the South Branch Valley of the Potomac to Petersburg, W. Va., via Moorefield, has been let to the FRANK H. BLODGETT CONSTRUCTION CO., of Wheeling, W Va. The line will be 40 miles long through a grazing and virgin timber country with large deposits of iron ore. The Baltimore & Ohio R. R. Co. will furnish the iron and take $125,000 mortgage therefor. Hardy County voted $60,000, Grant County $30,000, and New York and Washington capitalists have raised the rest. The Baltimore & Ohio Co. will have an option on the road. W. B. Cornwell, Fairmont, is Pres., and John J. Cornwell, Romney, Treas.

HOWE SOUND, PEMBERTON & NORTHERN.—Cleveland & Dutcher, civil engineers, Vancouver, B. C., have secured a 1% grade for this line which will be seven miles long and will cost $275,000. Construction will be started at once.

MANITOULIN & NORTH SHORE.—Bids may be asked soon by the Algoma Central & Hudson Bay Ry. Co. for building an extension between mile 13 and Little Current, Ont., about 70 miles. This work includes several bridges. Surveys have been made between Sudbury, Ont., and Little Current. C. N. Coburn is Ch. Engr., Sault Ste. Marie, Ont.

MEXICO NORTH WESTERN.—Incorporated in Canada as the Mexican Transportation Co., with $1,000,000 capital stock. It later changed its name to Mexico Transportation Co. and increased its authorized share capital to $40,000,000. Application has been made to the Canadian Parliament to again change the name to the Mexico North Western Ry. Co. The company is acquiring control of the Chihuahua & Pacific, extending from Tabalaopo, Mex., west to Minaca, 200 miles, and from La Junta northwest to Temosachic, 87 miles; also the Sierra Madre & Pacific, extending from Temosachic, Mex., to the Madera, 32 miles, making a total of 319 miles. The company intends, in the immediate future, to acquire further lines and build a number of extensions amounting to about 402 miles, which it is expected will be in operation by January 1, 1911, making the total mileage of the two railways about 721 miles. One terminal will be at El Paso, Tex., and the other at Chihuahua, Mex.

MONTANA WESTERN.—This line will run from Conrad, Mont., on the Great Northern Ry. northwest to the new town of Valier, about 20 miles, traversing an extensive irrigation district. The project is being carried out by the Conrad Land & Water Co., of which W. S. Cargill is Pres.; A. M. Tortellotte, Vice-Pres.; W. W. Withee, Secy. and Treas., and J. B. Bond, Ch. Engr., at Conrad, Mont.

*PHILADELPHIA & READING.—Contracts have been awarded as follows for work for which bids were received by W. Hunter, Ch.

Engr., Philadelphia, on May 11, for construction of the work appurtenant to the abolishment of grade crossings on the P. G. & N. R. R. as follows: Contract No. 1, masonry, trestle and embankment from the south side of Green St. to the south side of Brown St.; Contract No. 2, foundations for the steel viaduct from the south side of Brown St. to the north side of Jefferson St.; Contract No. 3, bridges and viaduct ready for ballast from the south side of Green St. to the north side of Jefferson St.; Contract No. 12, masonry, embankment, paving, water and drainage systems, fence and gates, new office building, scale foundation, concrete steps and pavement for yard at Master St.: (1) JAMES McGRAW CO., Arcade Bldg. Philadelphia, $859,912; (2) OWEN J. EVERS, Philadelphia, $237,307; (3) McCLINTIC-MARSHALL, Park Bldg., Pittsburg, $49,605; (12) OWEN J. EVERS, $92,342.

TOPPENISH, SIMCOE & WESTERN.—Incorporated in Washington, with $500,000 capital, to build from Toppenish, Wash., on the Northern Pacific, west to Fort Simcoe, about 39 miles. F. A. Williams, J. D. Cornett, W. S. Shearer, C. F. Meyer and Z. Y. Coleman, all of Toppenish, are interested.

WESTMORELAND & REDBOILING SPRINGS.—Incorporated in Tennessee to build a railway from Westmoreland, Tenn., to Redboiling Springs, about 30 miles. Survey will be made at once. J. L. Holland is Secy., Lafayette, Tenn.

ELECTRIC RAILWAYS.

NEW YORK, N. Y.—The Upper Broadway Railway Co., of New York, has been incorporated with a capital of $750,000. The company proposes to operate a double-track street surface railroad in Manhattan Borough 3½ miles long, from Twelfth Ave. along Manhattan St. to Broadway, to St. Nicholas Ave., to Fort George Ave. The directors are: Morgan D. Wilson, Arnold F. Wainwright and Charles F. Heddin, of New York City.

Judge Lacombe, in the United States Circuit Court, has handed down an order postponing until Nov. 13 or later the foreclosure sale of the Metropolitan Street Railway Co. in the proceedings brought by the Guaranty Trust Co., as trustees of the company's $12,500,000 collateral trust mortgage 5% bonds, on which interest has been defaulted. Noted last week.

CALIFORNIA, PA.—A charter has been granted to the California & Centerville St. Railway Co. to construct a 5-mile line in Washington County. The capital is $30,000. Directors and incorporators are M. H. Francies, Pres.; W. J. Weaver, H. C. Dunn, Josept McLain, and Harris Booker, all of California. Noted on April 29.

BAKERSVILLE, PA.—The Somerset & Bakersville Ry. Co. has been chartered to construct an electric railway from Rockwood to Bakersville, a distance of nine miles. Charles F. Hood, Connellsville, is Pres.

CARLISLE, PA.—The Cumberland Ry. Co. has been granted a franchise in Newville for its proposed 12-mile electric railway from Carlisle through Newville.

LYNCHBURG, VA.—The People's Improvement Co. will build a line one mile long, from Lynchburg to Fairview Heights. R. J. Hughes, P. O. Box 81, Lynchburg, is Pres.

BIRMINGHAM, ALA.—The Birmingham & Edgewood Electric Railway Co. is reported being organized by residents of Birmingham to build a street railway from the end of the South Highlands car line to Red Mountain, 3½ miles long. Among those interested are D. M. Drennen, A. G. Smith, E. D. Smith, W. A. Porter, H. C. Abbott, J. E. Shelby, B. H. Cooper, John F Bradley, G. T. Brazelton, Rufus N. Rhodes, J. T. Stokley and others.

NASHVILLE, TENN.—We are officially informed that contracts will be let as soon as right-of-way has been secured by the Nashville & Crocker Springs Rapid Transit Ry. Co. This company was recently incorporated to construct an electric railway from Nashville to Crocker Springs, a distance of 10¾ miles. Surveys are made and capital for construction secured. Capital, $50,000. Lee Guggenheim, Pres. and Gen. Mgr.; W. F. Webb, Vice-Pres.; R. B. Jones, Secy.; J. E. Leadley, Ch. Engr., with headquarters at 302 First National Bank Bldg., Nashville.

PADUCAH, KY.—The Kentucky & Ohio River Interurban R. R. Co. probably will begin construction early next month on its proposed line between Paducah and Cairo, Ill., 35 miles in length.

CINCINNATI, OHIO.—John E. Bleekman, Cincinnati, Pres. of the Southwestern Ohio Tractions Co., advises us that "we have taken options on some 300 miles of tractions around this city, and expect to connect them with about 100 miles of new tractions. This whole situation depends upon our getting a franchise for an entrance for the interurbans into the city." As noted on April 29, "the Southwestern Ohio Tractions Co., of which John E. Bleekman is Pres., made application to the City Council on April 26 for a franchise for an underground, elevated, and surface line, without grade crossings, from Norwood into the heart of the city, and with a branch leading from a point near Vance St. and Columbia Ave. to Carroll St. With the completion of the plan under consideration, a company embracing several hundred miles of lines and extending half way across the state will be in operation. It is the intention to extend from Lebanon to Springfield, either by purchasing lines now in operation or by the construction of an independent line. An extension will also be built, either from Hillsboro or Blanchester to Columbus, and when the final plans are consummated the Southwest Ohio Traction Co. will form a direct and short line from Cincinnati to Dayton, Cincinnati to Springfield, and Cincinnati to Columbus; also branches reaching Blanchester, Hillsboro, Georgetown, Bethel, and New Richmond and intermediate points. Altogether it will embrace approximately 400 miles of railway. Construction will be begun this summer, according to Mr. Bleekman, providing the franchise is granted. He estimates that within a year the road will be in operation. George H. Worthington, of Cleveland, who is largely interested in the Interurban Co., has been elected Chairman of the Board. This company was recently incorporated with $10,000 nominal capital. Headquarters, Second National Bank Bldg., Cincinnati. Incorporators: George B. Goodhart, Charles C. Benedict, William J. McCauley, C. B. Matthews and Harry T. Klein. Chas. Hansel, 43 Exchange Place, New York, is Engr. Mr. Hansel was assisted in the city work by J. M. Stewart, of Cincinnati, and on the up-state work by Jenkin W. Jones, of Columbus."

NEWCASTLE, IND.—The Union Trust Co., 116 East Market St., Indianapolis, receiver for the Indianapolis, Newcastle & Toledo Elec. Ry. Co., will receive new bids for completing, equipping and operating this railway between Indianapolis and Newcastle. The American Pipe Manufacturing Co., Philadelphia, Pa., was the only bidder for this work on May 13, at a total of $446,500. Noted on May 20 and April 22.

WHEATON, ILL.—The Chicago, Wheaton & Western Ry. Co. has awarded contract to W. C. CARRINGTON, Gary, Ind., for constructing that section of the proposed electric railway from Wheaton to Geneva. Henry C. Wood is Pres., 707 Rookery Bldg., Chicago.

MINNEAPOLIS, MINN.—We are officially advised that the Minenapolis, St. Paul, Rochester & Dubuque Elec. Traction Co. has just closed a deal with Eastern capitalists, for $4,000,000 with which to build and equip this line from Minneapolis to Rochester, Minn. Of the first 40 miles, from Minneapolis to Northfield about 30 miles are graded. H. F. BALCH has the contract on the balance of this part of the line. The contract on the line south of Northfield has not been let yet. F. G. L. Hunt is Ch. Engr., Minneapolis. M. M. Willcox is Resident Engr., Savage, Minn.

SHEFFIELD, MO.—The Blue Valley Traction Co. proposes to build an electric railway from Sheffield (Kansas City) south through Manchester and across the Blue River to Swope Park, then east to Raytown. Eventually it is to be extended to Sweet Springs. M. M. Sweetman is Pres.; C. W. German, Secy.; J. M. Lowe, Treas.; H. J. Smith, Kansas City, Ch. Engr. There will be two bridges over Blue River.

CORNING, ARK.—D. W. Reynolds and J. Pickrell, of Louisville, Ky., are reported interested in a plan to build an electric railway from Corning to Maynard, Ark., 18 miles.

OKLAHOMA CITY, OKLA.—At a special election in Oklahoma City the Oklahoma Interurban Traction Co. was granted a franchise there and construction of an interurban railway will begin at once. L. E. Patterson is Pres.

SOUTH BEND, WASH.—The County Commissioners have granted franchise to the Ilwaco General Electric Co. for an electric railway from Ilwaco to Stackpole Harbor, about 20 miles. Also franchise for lighting the cities of Ilwaco and Long Beach.

BELLINGHAM, WASH.—The Nooksack Valley Traction Co. will build a railway about 60 miles long to connect the following cities: Bellingham, Ferndale, Blaine, Custer, Lynden, Sumas and intermediate towns. It will connect with the Vancouver & British Columbia Railway at Blaine and Sumas. No contracts have been awarded as yet. Headquarters, 914 Fourth Ave., Seattle. J. S. Wheeler, Seattle, is Pres. and Gen. Mgr.; J. E. Morrison, Seattle, is Vice-Pres.; J. W. Welch, Ferndale, Secy.; W. P. Alward, Seattle, Treas. Capital stock authorized and issued, $1,250,000.

WALLA WALLA, WASH.—The Washington Traction Co. has been incorporated to construct a system of electric railways radiating out of Walla Walla to various points in the eastern parts of Washington, Oregon and Idaho. Capital stock, $3,500,000. Incorporators: Gilbert Hunt, Ben C. Holt, J. B. Catron, J. C. Armstrong and J. L. Mohundro. Articles of incorporation have also been filed for the Interurban Construction Company. Capital stock, $100,000. Incorporators are J. B. Catron, F. C. Hindle and J. C. Armstrong. This latter company will operate in conjunction with the former one, doing its construction work.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

RUMFORD, ME.—Bids were received May 8 by the Rumford Falls Power Co. for completing the excavations, foundations, stone and concrete masonry, brick station, etc., of the hydro-electric development started last year by the Rumford Falls Power Co., and the contract has been awarded to H. P. CUMMINGS CONSTRUCTION CO., of Ware, Mass.

AUGUSTA, ME.—Bids will be received until 6 p. m., May 28 by the Kennebec Light & Heat Co., at Augusta, for constructing a high-pressure gas main from Hallowell to Gardiner. About 24,000 ft. of 4-in. pipe and 1,350 ft. of 6-in. pipe line will be needed. W. B. Getchell is Ch. Engr.

BOSTON, MASS.—Bids are asked until 11 a. m., June 26, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Washington, D. C., for installing piping in the central power plant, Navy Yard, Boston. Specifications are on file at the office of Engineering News, New York.

HARTFORD, CONN.—See item under Streets and Roads.

NEW YORK, N. Y.—Bids are asked until 2 p. m., June 7, by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing and maintaining electric lamps for lighting streets, avenues, parks and public places, from June 7, 1909, to Dec. 31, 1909, both inclusive.

NEW YORK, N. Y.—Bids are asked until 3 p. m., June 1, by John W. Brannan, Pres. Bd. of Trustees of Bellevue and Allied Hospitals, for supplying electric lamps.

The following bids were received on May 17 by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, for installing electric equipment in new Public School No. 164 on the easterly side of 14th Ave., between 42d and 43d Sts., Boro. of Brooklyn: Cowden & De Young, 45 East 42d St., New York, $10,239; J. H. Loweth, $10,330; W. A. Bogart, $11,680; T. F. Jackson, 592 Columbus Ave., New York, $10,700; Commercial Construction Co., 114 East 28th St., New York, $11,623; Peter & Powers, $10,772; E. J. Duggan, Queensboro Bldg., New York, $10,920.

NEW YORK, N. Y.—Bids are asked until 11 a. m., June 26, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing one 1,000 and two 1,500-KW. turbo-alternators for the Navy Yards at New York, Boston and Philadelphia. Specifications are on file at the office of Engineering News, New York.

Bids are asked by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, until 11 a. m., June 7, for repairs, alterations and additions to the electric equipment in Public Schools Nos. 14, 26, 28, 51, 57, 70, 127, 141 and 166, Boro. of Manhattan.

FORT TOTTEN, N. Y.—Bids will be received by the Constructing Quartermaster until 2 p. m., June 15, for the construction of an electric lighting system at Fort Totten.

FORT HAMILTON (Brooklyn post-office), N. Y.—Bids will be received by the Constructing Quartermaster until June 15 for an electric lighting system and sub-station at this post.

*MIDDLETOWN, N. Y.—Bids are asked by T. E. McGarr, Secy. State Comn. in Lunacy, Capitol, Albany, N. Y., until 3 p. m., June 9, for outside lighting at the Middletown State Homeopathic Hospital. Franklin B. Ware is State Arch.

BASIC CITY, VA.—Bids will be received by W. M. Page, City Treas., for a hydro-electric plant, including concrete dam, 12,000 cu. yds. earth excavation for raceway, power-house and machinery.

INDIANAPOLIS, IND.—The Trustees of the Indiana School for Girls will receive bids after June 1 for construction of an addition and improving the power plant and for lighting the grounds.

BAUDETTE, MINN.—See item under Water Supply—Irrigation.

FORT LEAVENWORTH, KAN.—Bids are asked until June 15 by Maj. Thos. H. Slavens, Constr. Q. M., U. S. A., U. S. Military Prison, Fort Leavenworth, for furnishing and installing machinery and furnishing building material for a power plant at U. S. Military Prison here.

SISSETON, S. DAK.—We are officially advised that the MINNEAPOLIS STEEL & MACHINERY CO., of Minneapolis, has been awarded contract for a 125-HP. Muenzel producer gas engine and gas producer plant from the Sisseton Mill & Light Co., Sisseton, S. Dak. This engine will run both the flour mill and electric light plant and will be in service 24 hours a day.

*FORT SILL, OKLA.—Bids are asked until 10 a. m., June 21, by Capt. David L. Stone, Constr. Q. M., for the installation of a central heating plant operated either with hot water, vacuum, or low-pressure steam, and including all machinery necessary to operate the same, and the complete circulating system radiators, etc. The boilers will not be included in the proposals.

BREMERTON, WASH.—Bids are asked until 11 a. m., June 26, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing and installing piping, pumps, condensers, heaters, etc., in the central power plant, Navy Yard, Puget Sound, Wash. Specifications are on file at the office of Engineering News, New York.

DUNCAN, ARIZ.—We are officially advised that surveys have been completed and plans will be ready for estimates about May 30, for power construction in Arizona and New Mexico. There will be 42 miles of canal, flume and ditch, covering 16,000 acres of land in Grant County, N. Mex., and Graham County, Ariz., and heading in Gila River, N. Mex. There will be a small earth and rock dam. Will L. Brown is Ch. Engr., Duncan. Bids will be received about June 30. Cost, $120,000.

TORONTO, ONT.—The Hydro-Electric Commission has awarded a contract for the supply of copper transmission wire to the DOMINION WIRE CO., of Montreal. The OHIO BRASS CO., of Mansfield, Ohio, will supply the suspended insulators and the WESTINGHOUSE CO. the protective system in the sub-station.

*KINGSTON, ONT.—Bids are asked until noon, June 19, by H. B. R. Craig, City Engr., for the repair of the concrete gas holder tank belonging to the Corporation of the City of Kingston.

KAMLOOPS, B. C.—Bids will be received by J. J. Carment, City Electrician, until noon, May 28, for steam and electrical machinery. Plans and specifications may be seen at the office of H. K. Dutcher, C. E., Flack Block, Vancouver, B. C.

BRIDGES.

BAR HARBOR, ME.—Thecontract for rebuilding Duck Brook bridge of reinforced concrete has been awarded to SMALL & INGALLS, at $8,300. Edgar I. Lord is Engr., Bar Harbor.

PAWTUCKET, R. I.—The General Assembly has passed a bill providing for the appointment of a commission to have charge of constructing a bridge over Blackstone River between Pawtucket and Central Falls.

SOUTH WINDSOR, CONN.—The Board of Selectmen, H. E. Pitkin, Chn., have received bids as follows for the construction of a concrete-arch bridge across Scantic River: Curtis & Dean, Hartford, $9,712 and 50 cts. per ft. for piles; [illegible] Co., New Haven, Conn., [illegible] F. B. and W. H. O'Neil [illegible] and 50 cts.; A. W. Byrn[illegible] $8,500 and 40 cts., with $[illegible] for concrete filling. The [illegible] been awarded.

HARTFORD, CONN.—[illegible] Streets and Roads.

SYRACUSE, N. Y.—Plan[illegible] pleted, it is reported, for [illegible] to be constructed over O[illegible] Tallman St. Estimated co[illegible] last week.

NEW YORK, N. Y.—Th[illegible] Commission has approved [illegible] complete four elevator sha[illegible] piers of the Queensboro br[illegible] cost, $125,000.

NEW YORK, N. Y.—T[illegible] BRIDGE CO., House Bldg [illegible] been awarded contract, at [illegible] East New York bridges bet[illegible] road and Liberty Ave. This [illegible] work connected with the re[illegible] crossings along the Long Isl[illegible]

NEW YORK, N. Y.—Bids a[illegible] W. Stevenson, Comr. of Bri[illegible] m., June 3, for constructing [illegible] stairways, etc., roadway and [illegible] ments, track and electrical [illegible] the Manhattan Bridge over th[illegible] between the boroughs of M[illegible] Brooklyn.

Bids are asked by the Park [illegible] 3 p. m., June 17, for repai[illegible] bridge in Dyker Beach Park, [illegible] Brooklyn.

NEW CASTLE, PA.—The [illegible] opened by the Board of County [illegible] ers on May 12 for constructing a [illegible] Neshannock Creek were as follows: American Bridge Co., 30 Church St., New York, $24,800 for steel structure, and Reinforced Concrete Construction Co., of Pittsburg, $27,790 for concrete structure.

McKEESPORT, PA.—Plans have been submitted to the City Council, it is reported, for the construction of a viaduct over the railroad tracks at Riverton St. Estimated cost, $175,000. The Baltimore & Ohio R. R. Co., A. M. Kinsman, Ch. Engr., Baltimore, Md., and the West Penn Ry. Co., J. L. Fritsch, Ch. Engr., Connellsville, are interested.

PHILADELPHIA, PA.—The McCLINTIC-MARSHALL CONSTRUCTION CO., of Pottstown, Pa., have been awarded contract to erect bridges and viaducts for the Philadelphia & Reading Ry. Co. in order to remove the Ninth St. grade crossings between Spring Garden St. and Huntingdon St. The contract amounts to $859,912.

*WASHINGTON, D. C.—Bids were received as follows by the Commissioners of the District of Columbia for widening a concrete bridge across Piney Branch on the line of 16th St. extended: Hopkins, Barnett & Co., Baltimore, $79,500; T. E. Riddle, Philadelphia, $79,600; Cranford Paving Co., Washington, $61,770; C. B. Clarke & Co., Baltimore, $84,500; McCormick & Co., Philadelphia, $71,705; G. & W. Mfg. Co., 26 Cortlandt St., New York, $68,890; Baltimore Ferro-Concrete Co., Baltimore, $76,480; Penn Bridge Co., Washington, $79,375.

BIRMINGHAM, ALA.—The Board of Revenue on May 19 let contracts for four steel bridges, costing together about $5,000. WILSON BROS. will build the bridge at Trussville, the SOUTHERN BLDG. CO. received the contract for the two between Cardiff and Brookside, and MILSAP CO. will build the one between Fairview and Powderly.

SCOTTSVILLE, KY.—Bids will be received until May 29 by John D. Spears, Mayor, and the Council for building certain bridges, grading and macadamizing streets and public square.

MECHANICSBURG, OHIO.—Bids will be received until June 1 by the County Commissioners, Urbana, for constructing a concrete arch bridge over W. Sandusky Creek, Mechanicsburg. C. E. Russell is County Audr.

DAYTON, OHIO.—Bids are asked until 11 a. m., June 5, by the County Commissioners, F. E. Tunison, Clk., for constructing superstructure of a bridge over Sugar Creek, in Washington Township.

UPPER SANDUSKY, OHIO.—Bids are asked until noon, June 8, by J. N. Traxler, County Audr., for building stone abutment at the Mackey bridge, in Eden Township.

WEST CARROLLTON, OHIO.—The County Commissioners, Dayton, have awarded contract for constructing a lift bridge in West Carrollton to the BROOKVILLE BRIDGE CO., Brookville, Ind., at $8,723.

HAMILTON, OHIO.—Contracts for bridge work, bids opened on May 8, have been awarded as follows: To FRANK BONE, of Lebanon, Ohio, for Reily Township bridge, $3,270; to the CAPITOL CONSTRUCTION CO., Columbus, Ohio, for superstructure of Oxford bridge, at $5,185. J. E. Brate is County Audr.

CINCINNATI, OHIO.—Bids will be received by the Board of County Commissioners until noon, June 18, for the following county work: under specification No. 917, for repairing bridge at Spring Grove Ave. over Mill Creek, in Millcreek Township. Fred Dreihs is Clk.

CLEVELAND, OHIO.—Bids for the construction of the new bridge between E. 65th St. and Berwick Road, S. E., were received on May 20 by the Board of Public Service. The low bid was submitted by the H. J. Collier Co., at $16,707. The bridge will be of timber construction and will be 675 ft. long. Throughout a length of 400 ft. it will be 80 ft. high. The bridge is to cross Kingsbury Run and will connect the Newburg section with Kinsman Road.

Bids on the last Kinsman Road Pennsylvania grade crossing contract were also received. The bridge over the tracks has been in use since fall, but a concrete stairway is yet to be built and cement sidewalks are to be laid. The low bid on this work was submitted by M. P. Platten, at $3,2[illegible]

BLUFFTON, IND.—Bids are asked by the Commissioners of Wells County until June 7 for the construction of seven bridges. O. D. Garrett is County Audr.

COLUMBUS, IND.—Bids are asked by the Commissioners of Bartholomew County until 10 a. m., June 7, for the construction of a reinforced-concrete flat-top girder bridge in Columbus Township and a bridge of same type in Wayne Township.

VINCENNES, IND.—Bids are asked until 2 p. m., June 8, by John T. Scott, County Audr., for constructing eight bridges.

IRON MOUNTAIN, MICH.—The WISCONSIN BRIDGE CO. has been awarded contract, at $6,[illegible]72, for constructing bridge across Sturgeon River, near New York Farm. The bridge is to be 160-ft. span riveted truss structure, with concrete floor.

PEORIA, ILL.—The contract for the foundation and piers for the proposed new Pekin & Peoria Union Ry. bridge to be erected across the Illinois River at this point, has been awarded to the YAWGER CO., of Indianapolis, and work will be begun at once. The contract price is understood to approximate $250,000. The substructure is to be completed by October 15.

APPLETON, WIS.—Bids will be received until 5 p. m., May 31, by the Board of Public Works for a bridge over Bellaire Park on Pacific St., to be constructed either of steel, concrete, stone or a combination of all or either. C. H. Vinal is City Engr.

WATERLOO, IOWA.—The MARSHALL ENGINEERING CO., Des Moines, Iowa, has been awarded contract for constructing a concrete and steel bridge over Crane Creek, near Dunkerton for the county.

TOPEKA, KAN.—Bids will be received until May 28 by the County Commissioners for constructing a 105-ft. steel span bridge, with reinforced concrete floor, over Wakarus Creek. S. G. Zimmerman is County Clk.

ALMA, NEB.—Bids are asked until noon, June 1, by F. W. Stevens, County Clk., for building all county bridges for one year.

BRITTON, S. DAK.—Bids will be received until June 8 by the County Commissioners for constructing three steel bridges. M. N. Brigstock is County Audr.

MITCHELL, S. DAK.—We are officially advised that FRED BJODSTRUP, of Mitchell, has been awarded contract by the county for one 80-ft. steel and various other bridges at $3,297. H. B. Anderson is County Audr.

ST. JOSEPH, MO.—Contract for rebuilding the S. Sixth St. viaduct, bids opened May 6 by the Board of Public Works, has been awarded to YOUNG BROS. CONSTRUCTION CO., of St. Joseph, at $6,600. J. F. Bonds is Clk. Bd.

MEXICO, MO.—Bids are asked until 3 p. m., June 8, by the County Court for constructing seven bridges. J. J. Wakefield is Highway Engr.

FAIRVIEW, TEX.—The contract for constructing the Fairview bridge has been let to the EL PASO BRIDGE CO., El Paso, Tex., at $17,400, to be completed by Nov. 6. The bridge will be a steel truss 450 ft. long, with a pier in the middle. There were about ten companies who submitted bids.

ENDLETON, ORE. — The COLUMBIA BRIDGE CO., Walla Walla, Wash., has been awarded contract for constructing the steel bridge over the Umatilla River at Lee St. The bridge is to have concrete abutments and piers. Estimated cost, about $11,000.

STOCKTON, CAL.—The McGILVRAY CONSTRUCTION CO., San Francisco, Cal., has been awarded contract at $23,000, for constructing the joint county steel bridge over Dry Creek.

BAY CITY, CAL.—The ATLANTIC, GULF & PACIFIC CO., Monadnock Bldg., San Francisco, has been awarded contract for building a bridge across San Gabriel River. The bridge is to connect Bay City with Long Beach.

SANTA BARBARA, CAL.—The UNION IRON WORKS, 20th and Michigan Sts., San Francisco, has been awarded contract, at $7,300, for constructing three bridges in road district of Monticello for the county.

EDMONTON, ALTA.—The Department of Public Works constructed 284 bridges during 1908, and have plans for 429 to be built this year. W. H. Cushing is Minister Pub. Wks., Edmonton.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

FORT ANDREWS, (Boston post-office), MASS.—Bids are asked until 10 a. m., June 3, by Capt. R. H. Rolfe, Constr. Q. M., 263 Summer St., Boston, for the construction, including plumbing, heating and electric wiring of one brick guardhouse, brick quarters for four officers, brick quarters for field officers, at Fort Andrews, Peddock's Island, Boston Harbor, Mass.

SPRINGFIELD, MASS.—Bids are asked by the Committee on City Property, until noon, May 29, for erection of the proposed Lincoln school building, between Chestnut and North Sts. E. C. & G. C. Gardner, 33 Lyman St., are Archs. Henry N. Bowman is Chn. Com.

A syndicate, headed by W. M. Kimball and Charles T. Shean, will erect a 10-story hotel at the corner of Chestnut and Bridge Sts. The steel and concrete building with facings of buff brick and terra-cotta will occupy most of the site, which fronts 120 ft. on Chestnut St. and 185 ft. on Bridge St., including the St. Paul's Church property and land bought of Dr. Lawson S. Brooks, whose property on Chestnut St. adjoins the church property, and property on Bridge St. owned by E. D. Davis and extending to the driveway from Bridge St. along the side of the Springfield Printing & Binding Co.'s building.

Esenwein & Johnson, Archs., 775 Ellicott Square Bldg., Buffalo, N. Y., have prepared plans for an 11-sty and basement fireproof hotel, 118 x 114 ft., to be erected at the corner of Broadway and Bridge St., Springfield, by the Springfield Hotel Co., Herbert Myrick, Pres., Springfield. It will be of steel frame, brick and stone construction, with four hydraulic passenger elevators and 300 rooms. Cost, $600,000.

*BOSTON, MASS.—Bids are asked until 10 a. m., June 10, by Capt. R. H. Rolfe, Constr. Q. M., 263 Summer St., Boston, Mass., for the construction, including plumbing, heating and electric wiring and fixtures of one double brick barrack; one double set brick lieutenant's quarters; one four set brick officers' quarters; one double set N. C. O. quarters; one double set firemen's quarters; at Fort Strong, Long Island, Boston Harbor, Mass.

HARTFORD, CONN.—The West Middle School District has awarded to ADAM PURVES, of this city, the contract for constructing an assembly hall, 60 x 100 ft., after plans of Davis & Brooks, Archs., of Hartford. There were seven other bidders, as follows: T. R. Fox & Son, J. H. Grozier, McIntyre & Ahern, Theo. Newton & Co., Thos. Malcolm and A. L. Hills, but no figures have been made public.

NEW YORK, N. Y.—The following bids were received by Nicholas J. Hayes, Fire Comr., on May 19, for furnishing all the labor and materials required for erecting and completing a new building for an engine and hook and ladder company, to be located on the westerly side of White Plains Road, Boro. of Manhattan. Charles H. Peckworth & Co., 415 Hudson St., $63,285; O'Connell & Hanna, 271 West 125th st., $61,505; Thos. B. Leahy Bldg. Co., 1 East 42d St., $67,643; Morningside Constr. Co., $66,784; Hartman & Hogan, Ogden and 162d Sts., $69,881; Calumet Construction Co., 15 East 59th St., $64,419; Thomas B. Cockerill & Son, 147 Columbus Ave., $64,500; Joseph F. Kerr, 205 West 30th St., $62,345; Guidone & Celardi, $62,530; Thomas J. Buckley Construction Co., Lexington Ave. and Hudson River, $59,800; Kelly & Kelley, Inc., 45 East 42d St., $66,773; George Hildebrand, 38 Park Row, $65,944; Concourse Construction Co., Webster Ave. and East 181st St., $60,764; Clarke & Stowe, 41st St., near Second Ave., $69,400; John Walsh Construction Co., $62,940; W. J. Moran, Inc., $69,935; Jos. Wagner, $69,870; W. H. Wright & Son, Inc., $64,800; Lawrence J. Rice, 103 Park Ave., $63,900.

The following bids were received at same time and place for furnishing all the labor and materials required for erecting and completing a new building for a hook and ladder company to be located on the southerly side of Hancock Pl., Boro. of Manhattan: Charles H. Peckworth & Co., 415 Hudson St., $34,062; William Horne Co., 71 West 132d St., $38,400; O'Connell & Hanna, 271 West 125th St., $34,900; Thomas B. Leahy Bldg. Co., 1 East 42d St., $34,473; Morningside Constr. Co., $36,780; Hartman & Hogan, Ogden and 162d St., $37,887; Calumet Const. Co., 15 East 59th St., $34,843; Thomas B. Cockerill & Son, 147 Columbus Ave., $37,500 Joseph F. Kerr, 205 West 30th St., $33,435; Guidone & Gelardi, $34,711; Thomas J. Buckley Const. Co., Lexington Ave. and Hudson River, $34,008; Kelly & Kelley, Inc., 45 East 42d St., $38,286; George Hildebrand, 38 Park Row, $36,720; Concourse Construction Co., Webster Ave. and East 181st St., $34,462; Clarke & Stowe, 41st St., near Second Ave., $45,800; John Walsh Construction Co., $37,445.

NEW YORK, N. Y.—Bids are asked by the Armory Board, Hall of Records, until 2 p. m., June 2, for installation of an electric passenger elevator in the Armory of the 69th Regiment, N. G., N. Y., Lexington Ave. and 25th St., Boro. of Manhattan; for finishing, fitting, etc., of two new company rooms in the Armory of the 22d Regiment Engineers, N. G., N. Y., Broadway and 67th St., Boro. of Manhattan; for furnishing and installing observer station in the Armory of the 8th Coast Artillery District, Park Ave. and 94th St., Boro. of Manhattan; for furnishing and installing observer station in the Armory of the 9th Coast Artillery District, No. 125 West 14th St., Boro. of Manhattan; for furnishing and installing observer Station in the Armory of the 13th Coast Artillery District, Sumner and Jefferson Aves., Boro. of Brooklyn; for alterations, etc., to the steam heating plant in the Armory of the 7th Regiment, 66th St. and Park Ave., Boro. of Manhattan.

Plans have been filed for an 11-story and basement loft building to be erected for Dodd, Mead & Co., at the northeast corner of Fourth Ave. and 30th St. Babb, Cook & Welsh, 3 West 39th St., are Archs. It is to be of brick and limestone, fronting 74 ft. on the avenue and 90 ft. on the street. It is to cost $200,000.

NEW YORK, N. Y.—Bids were received as follows by John J. Barry, Comr. Dept. of Correction, on May 20, for furnishing all the labor and materials required for the erection and completion of a 3-story and cellar brick fireproof dormitory building on Harts Island, New York City: Albert Winternitz, 237 East 72d St., $86,000; Concourse Construction Co., Webster Ave. and East 181st St., $129,527; O'Connell & Hanna, 271 West 125th St., $107,607; John T. Brady & Co., $93,840; Thomas B. Leahy Bldg. Co., 1 East 42d St., $103,380; R. E. Henningham, $99,850; Jennings & Welstead, $113,883; George Hildebrand, 38 Park Row, $109,740; Mahoney Bros., $98,500; N. B. Smythe, $105,563; Kelly & Kelley, Inc., 45 East 42d St., $92,525; Thomas McKuhn, $109,333; John H. Deves & Bro., $105,340; Charles H. Peckworth, $103,576; Cramp & Co., $100,250; P. J. Carlin, $111,800; John H. Parker Co., $109,959.

NEW YORK, N. Y.—Bids were received by J. W. Stevenson, Comr. of Bridges, Park Row Bldg., on May 20, for the construction of the foundations of the municipal building. The bids are for work divided into three classes: Work in construcion exclusive of caisson work, all caisson work from surface down to a horizontal plane 96 ft. below high water, and additional caisson work below a horizontal plane 96 ft. below high water. Under these items bids were submitted as follows: The Foundation Co., 115 Broadway, $1,443,147; John C. Rodgers, 121 West 125th St., $1,730,650; P. J. Carlin Construction Co., 16 East 23d St., $1,820,000; Bradley Contracting Co., 1 Madison Ave., $1,986,000; Luke A. Burke & Sons Co., 25 West 42d St., $2,065,000; J. H. Gray Co., Broadway and 23d St., $2,248,000; O'Rourke Engineering Construction Co., 345 Fifth Ave., $2,299,000.

James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of foundations for the New York Assay Office to MERRILL-RUCKGABER CO., New York, at $79,400. Time, Dec. 31, 1909.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, until 11 a. m., June 7, for alterations, repairs, etc., at Public Schools Nos. 65, 72, 76, 83, 108, 109, 125, 144 and Truant School, Boro. of Brooklyn; for alterations, repairs, etc., at Public Schools Nos. 5, 6, 7, 8, 11, 12, 13, 21, 26, 32, 33, 34 and 41, Boro. of the Bronx; for alterations and repairs to heating and ventilating apparatus of Public Schools Nos. 5, 31 and 32, Boro. of the Bronx; for alterations, repairs, etc., at Public Schools Nos. 2, 7, 15, 22, 31, 34, 36, 42, 62, 64, 75, 88, 92, 105, 137, 147, 177 and 188, Boro. of Manhattan; for repairs to heating and ventilating apparatus in Public Schools Nos. 9, 11, 41, 51, 67, 94, 157, 166, 179, also Dewitt Clinton High School and Annex to Washington Irving High School, Boro. of Manhattan; for forming classrooms, etc., at Public School No. 41, at 36 Greenwich Ave., Boro. of Manhattan; for improving the sanitary condition, etc., of Public Schools Nos. 1, 8, 35, 42, 52 and 74, Boro. of Queens.

CORTLAND, N. Y.—The contract for erection Cortland County Hospital has been awarded to the COMPTON REALTY CO., for $50,500, with exception heating and electrical equipment, contract for which has not yet been let. The hospital is a gift to the city by T. H. Wickwire.

ROME, N. Y.—Bids are asked by R. C. Briggs, Pres. Board of Managers, Rome State Custodial Asylum, Rome, N. Y., until noon, June 7, for construction, including heating, plumbing and electric work, for new group to replace Building "B," at the State Custodial Asylum at Rome. Only bids for complete work of construction, heating, plumbing, and electric work will be received. F. B. Ware is State Arch.

FORT H. G. WRIGHT, (New London, Conn., post-office), N. Y.—Bids are asked until 10 a. m., June 7, by Capt. Charles T. Baker, Constr. Q. M., New London, for construction proper of two double lieutenants' quarters at Fort H. G. Wright, N. Y., and one double lieutenants' quarters at Fort Terry, N. Y., and installing plumbing, heating plants, and electric wiring in same.

BUFFALO, N. Y.—Lansing & Beierl, Archs., 371 Pearl St., have prepared plans and Frank S. Sidway, owner, 194 Main St., is receiving bids for an 8-story steel frame and brick addition, 50 x 115 ft., to department store, to be erected on Pearl St., for the H. A. Meldunn Co., lessee.

Green & Wicks, Archts., 110 Franklin St., have prepared plans and will receive bids for preparatory school for boys, to be erected for the Nicholas School, at the corner of Amherst St. and Niagara Falls Boulevard. The main building will be 78 x 135 ft., two and three stories, stone, brick and steel; gymnasium, 72 x 135 ft., two stories, stone, brick and steel.

PHILADELPHIA, PA.—Milligan & Webber, Archs., 520 Walnut St., have finished plans for a $125,000 store and manufacturing building to be erected for Mershon Bros., at 228-232 North 13th St., for which they paid $32,500. The building bill be eight stories and basement high and of concrete construction. Estimates for the erection have been invited to J. W. Emery, Cramp & Co., the William Steele & Sons Co., John R. Wiggins & Co., Thomas C. Trafford and Doak & Co. The lot measures 45 x 112.6 ft.

The FULLER CONSTRUCTION CO., contractors, are taking estimates on plans for the 18-story office building to be erected at 1413-1423 Chestnut St. for the Chestnut St. Realty Co. The building will measure 112 x 100 ft. and will be 18-stories high. Allan Evans is Arch.

George E. Savage, Arch., Provident Bldg., has plans in preparation for a 2-story stone church and Sunday school and for a parsonage to be build at 27th and Cumberland Sts., for St. Marcus' Lutheran Church, at a cost of about $50,000. The church will seat about 700 and the Sunday school about 550 persons.

The ROYDHOUSE-AREY CO., Delaware and Van Kirk Sts., has the contract for constructing a 5-story addition, 105 x 184 ft. and 101 x 49 ft. 6 ins., and dye house, 161 x 49 ft., to be built at Huntingdon and Marshall Sts., from plans by Ballinger & Perrot, Archs., 1200 Chestnut St.

ALLEGHENY, PA.—The contract for erecting a 10-story mercantile building for B. White, of Allegheny, Pa., has been awarded to THOMAS REILLY, 1616 Thompson St., Philadelphia. The building will be of steel construction, brick and cut stone, fireproofed throughout, and will cost $165,000.

PITTSBURG, PA.—The contract for erecting the proposed West Penn Hospital has been let to HENRY SHENK & CO., Lewis Block, Pittsburg, at about $300,000. The total cost of the new institution, including the site, the interior finishing of the buildings and the equipment, is given as $900,000.

A contract for razing the old Protestant Orphan Asylum of Pittsburg and Allegheny at Ridge and Grant Sts., North Side, has been let to FREDERICK BROS., of the North Side. The property was bought some time ago by Mrs. Laughlin and is to be used as a site for two residences. One of them will belong to Rev. Dr. Maitland Alexander and is being designed by George S. Orth & Bro., Stevenson. It will cost $50,000 or more, will be of brick and stone and will measure 90 x 100 ft., and 2½-stories high.

BALTIMORE, MD.—THOMAS REILLY, 1616 Thompson St., has been awarded a contract for a new building for the House of the Good Shepherd, Baltimore, Md. The building will be brick, cut stone, reinforced concrete, fireproofed throughout, and will cost about $200,000.

WASHINGTON, D. C.—A $50,000 4-story and basement apartment is to be built at 918 14th St., N. W., for Miss M. C. Whelan. A contract for the construction of the building has been let to CHARLES J. CASSIDY CO., 523 13th St., N. W., and building operations will be commenced next week. The front of the building will be of Kentucky limestone, highly ornamented. The entrances to the store, which will occupy all of the first floor, as well as to the apartment, will be of wrought iron of elaborate design. Show windows and doors will be of French plate glass with copper roof over windows. It has been decided by Miss Whelan to have the building trimmed throughout in highly polished hardwood, with parquetry flooring in the halls and the rooms in the apartments. All modern conveniences will be installed. The building probably will be completed and ready for occupancy late in the fall.

GULFPORT, MISS.—Bids are asked until 3 p. m., June 21, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office and custom-house at Gulfport.

*NEW ORLEANS, LA.—We are officially advised that bids were received as follows on May 11 by the Board of Commissioners of the Port of New Orleans, Hibernia Bank Bldg., for the fabrication and erection of the structural steel and cast iron for any or all of the following sheds: Additions to the Celeste St. steel shed, 265,000 lbs. steel, 1,600 lbs. c.-i.; St. Andrew St. steel shed, 1,163,520 lbs. steel, 17,000 lbs. c.-i.; Bienville St. steel shed, 1,178,560 lbs. steel, 12,000 lbs. c.-i. A. C. Bell, Hibernian Bank Bldg., is Engr.; Hugh McCloskey is Pres. Bd. MASSILLON BRIDGE CO., Massillon, Ohio, $68,555 (awarded contract); Fort Pitt Bridge Co., House Bldg., Pittsburg, Pa., $70,880; McClintic-Marshall Construction Co., Park Bldg., Pittsburg, Pa., $72,272; American Bridge Co., 30 Church St., New York, all or none, $72,168, singly $73,487; Noelke-Richards Iron Works, all or none, $72,390, singly $73,995; Brown-Ketcham Iron Works, all or none, $73,962, singly, $74,418; Penn Bridge Co., Diamond Bank Bldg., $75,775; Des Moines Bridge Co., Des Moines, Iowa, $76,005; Virginia Bridge Co., Roanoke, Va., $77,812; Modern Steel Structural Co., $80,939; Memphis Bridge Co., Memphis, Tenn., $83,593; John Reusch, $83,985; Midland Bridge Co., $92,319; L. Shreiber & Sons Co., Cincinnati, Ohio, informal.

CARTHAGE, OHIO.—Bids will be received at the office of the Hamilton County Agricultural Society, Room 11, Wiggins Block, Cincinati, until noon, June 19, for furnishing the necessary labor and material for the erection of a live stock exhibition building, to be located on the Fair Grounds at Carthage, Ohio.

ELMWOOD PLACE, OHIO.—Bids are asked by the Council of the Village of Elmwood Place, until noon, June 2, for furnishing the necessary labor and materials for the construction and erection of a town hall at the corner of Main Ave. (Spring Grove Ave.) and Maple St., in said Village of Elmwood Place, according to plans and specifications on file in said office and on file in the office of P. E. Moosmiller, Arch., First National Bank Bldg., Norwood, Ohio. J. J. McQueen is Village Clerk.

FOND DU LAC, WIS.—St. Joseph's Roman Catholic Congregation has awarded contract for furnishing materials and constructing brick and stone church building to THOMAS O'CONNELL, of Fond du Lac, at $44,858. Mason work has been sublet to HUTTER CONSTRUCTION CO.

MILWAUKEE, WIS.—The Board of Public Works will soon call for bids for the construction of a South Side Natatorium at Eleventh and Greenfield Aves., for which purpose the Common Council has appropriated $50,000.

SHENANDOAH, IOWA.—Bids were received as follows on May 20 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Shenandoah, Iowa: Interstate Construction Co., Ltd., Saginaw, Mich., $58,637; Charles W. Gindele Co., 3333 La Salle St., Chicago, $55,000; Bartlett & Kling, Inc., Cedar Rapids, Iowa, $57,524.

ST. PAUL, MINN.—The State Board of Control has awarded the following contracts from plans of C. H. Johnston, Arch., Manhattan Bldg., St. Paul. Hospital for the Criminal Insane at St. Peter, Minn., to J. B. NELSON, Mankato, Minn., at $60,035; alterations and addition to the ward building at St. Peter, Minn., to OTTO NEITGE, Mankato, Minn., at $40,030. Bids on the isolation building at Rochester, Minn., were rejected as tho high; action on the bids for the industrial building at Rochester, Minn., was deferred.

L. S. Cushing, agent, has awarded the contracts for two 3-story pressed brick and cut stone store and office buildings, one to be built on the northwest corner of Seventh and Cedar Sts., and the other on the southeast corner, to GEORGE J. GRANT CONSTRUCTION CO., city. M. Fitzpatrick, 15 West Ninth St., is Arch. Cost, $100,000.

George L. Bens, 409 Jackson St., city, will soon take bids on a 4-story pressed brick and cut stone, fireproof theater and office building which he will erect for Sam S. and Lee Shubert, New York. Buechner & Orth, city, are Associate Architects. Building will be built at Exchange and Wabasha Sts. Cost, $250,000.

FORT CROOK, NEB.—Bids are asked until 11 a. m., June 9, by Capt. Joseph F. Gohn, Constr. Q. M., for installation of

steam heating system, including reconstruction of brick chimney, etc., in post hospital at Fort Crook.

*LEAD, S. DAK.—Bids are asked until 7 p. m., June 11, by the Board of Education, Lead, for installing complete blast steam heating and ventilating system with central boiler plant, for the High School and Assembly Hall building. Carrie M. Voigt is Clerk.

FORT D. A. RUSSELL, WYO.—Bids are asked by the Constructing Quartermaster, Cheyenne, Wyo., until 9.30 p. m., June 10, for construction, plumbing, steam heating, electric wiring and electric fixtures in public buildings at Fort D. A. Russell, Wyo., as follows: One 4-set officers' quarters, plan No. 237-A; one post administration building, plan No. 256; one post chapel, plan No. 229; two post exchange buildings, plan No. 221-B.

FORT WINGATE, N. MEX.—Bids are asked until 11 a. m., June 9, by the Constructing Quartermaster, for furnishing all labor and material required for construction, plumbing, heating and electric wiring post exchange and gymnasium building here.

WENATCHEE, WASH.—The contract for the general construction of the proposed school building in this city was awarded to ALEXANDER PEARSON, of Seattle. The bid was $52,685. FISKE & GILLETE were the successful bidders for the plumbing, at $4,175.

EUREKA, CAL.—Bids were received as follows on May 24 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Eureka, Cal.: Globe Construction Co., Chronicle Bldg., San Francisco, $122,987; Pacific Construction Co., 16 California St., San Francisco, $133,000.

*SAN FRANCISCO, CAL.—Bids are asked until 3 p. m., June 28, by James Knox Taylor, Superv. Arch, Treasury Dept., Washington, D. C., for certain partitions, screens, fixtures and other interior finish in the U. S. custom-house at San Francisco, Cal.

A 4-story and basement building is to be erected on the west side of Kearny St., between Post and Sutter Sts., by W. M. Young, to be known as the Young Building, and will cost $80,000. The Young Building will have a frontage of 65 ft. in Kearny St., with a depth of 107 ft. The sole agents of the building are Joseph H. Rucker & Co., 49 Post St.

Bids are asked until June 2 by the Board of Public Works for the steel work on the City and County Hospital, and for the general construction of the Hall of Justice. The first will have to be completed within 160 working days and the second in 200 working days.

At a recent meeting of the Board of Public Works it was agreed to recommend to the Board of Supervisors that $85,000 be set aside for the construction of the Clement Primary School, at Day and Noe Sts.

LOS ANGELES, CAL.—An apartment house costing about $400,000 to be built and operated on cooperative ownership plan, probably will be located on West Adams and Figueroa. Mrs. F. B. Mason is promoting the proposition.

A 6-story brick and steel store and office building to cost no less than $100,000 will be erected on the east side of South Hill St., between Sixth and Seventh Sts., by the Central Broadway Building Co., Isaac Norton Pres. The building will have a frontage of 125 ft. and a depth of 150 ft. It will be located north of the Sunset Telephone exchange, and will join the Central Department store building in the rear. The plans are being prepared by S. Tilden Norton, Arch., and it is expected that work preliminary to construcion will be begun in about two weeks.

*MOSCOW, IDAHO.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., until 3 p. m., June 30, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office and court-house at Moscow, Idaho.

WINNIPEG, MAN.—Alloway & Champion, private bankers, 362 Main St., are having plans prepared for a stone bank block of four stories.

John Woodman, Arch., Merchants' Bank, is preparing plans for a 61-suite apartment block to be erected on Hargrave St. for J. D. McArthur. It will be built of reinforced concrete and faced with pressed brick.

C. W. SHARPE has been awarded the contract for the new building for the Great West Life Assurance Co. Cost, $170,000, with fittings, etc., the building will cost $230,000.

RAYMOND, ALTA.—The contract for the Taylor Academy here has been let to JAMES CAHOON and S. S. NEWTON, of Cardston, Alta. Cost, $40,000.

MEDICINE HAT, ALTA.—Bids are asked by W. J. Brotherton, Chn., until noon, May 31, for all trades necessary for the erection of a brick and stone public school building here.

LETHBRIDGE, ALTA.—Bids are asked by John Stocks, Deputy Minister of Public Works, Edmonton, Alta., until noon, June 6, for all trades necessary for the erection of a court-house here. Plans and specifications may be seen here and also at the Department.

FERNIE, B. C.—Bids are asked by Evered Criddle, Superv. Arch., Dept. of Public Works, Victoria, B. C., until noon, June 9, for all trades necessary for the erection of a court-house here. Plans and specifications may be seen at the department and also at the offices of the government agents at Fernie, Nelson and Revelstoke, B. C.

WATER SUPPLY—IRRIGATION.

ASHFIELD, MASS.—Contract for building a stone and concrete dam about 80 ft. long and 10 ft. high, and for repairing about 1¼ acres of land for a storage reservoir, has been awarded by the Ashfield Water Co. to H. W. WARNER, of Florence. Charles H. Wilder is Secy.

BOSTON, MASS.—Contract for laying water pipe in Sleeper St. and Northern Ave., bids opened on May 7, has been awarded by the Water Commissioners, H. E. Swan, Ch. Clk., to CHARLES J. JACOBS CO., 107 Terrace St., Roxbury, at $11,338.

*CONCORD, MASS.—We are officially advised that bids were opened as follows May 20 by the Water and Sewer Commissioners for building an intake in Nagog Pond and laying c.-i. pipe and appurtenances in Acton and Concord: Henry Spinach Contracting Co., Waterbury, Conn., $17,872; Cenedella & Co., Milford, Mass., $20,552; Joseph Long, Leominster, Mass., $23,020; C. E. Trumbull Co., Boston, $27,575; John E. Palmer, Boston, $28,500; The Farnum-Hanscom Co., Boston, $29,651; Frank Williams & Bro., Boston, $31,766; F. B. Williams & Co., Boston, $33,230; Michael Little & Co., Leominster, $41,315; Bruno & Petitti, Boston, $41,730; M. Russo, Boston, $42,124; Tony Ross, Woburn, $48,298. Metcalf & Eddy, 14 Beacon St., Boston, are Engrs.

ROCHESTER, N. Y.—The Finance and Water Works Commission has reported in favor of an appropriation of $250,000 for extending and enlarging the water mains. Edwin H. Fisher is City Engr.

BUFFALO, N. Y.—Governor Hughes has signed the bill increasing the amount of water bonds the city can issue from $2,000,000 to $3,000,000 for water main extension.

The B. I. Crooker Co., Builders' Exchange, Buffalo, submitted the lowest bid on May 14 to the Board of Public Works for entire work of building the new pumping station at Porter Ave., at $383,921. Other bidders were: Mosier & Summers, $399,500; John Lannon, $415,000. Bidders on a portion of the work were as follows: Timothy McEvoy & Son, $3,984 for heating and $7,892 for plumbing; Dark & Co., $3,712 for heating and $7,142 for plumbing. F. G. Ward is Comr.

CANAJOHARIE, N. Y.—Governor Hughes has signed the bill authorizing this city to borrow $7,500 to meet preliminary expenses for installing water-works.

PLATTSBURG BARRACKS, N. Y.—Bids will be received by the Constructing Quartermaster, U. S. A., until 11 a. m., June 11, for constructing a filter house, electric wiring for same, and for furnishing and installing a pressure filter with a capacity of 600 gallons per minute.

ALBANY, N. Y.—The contract for supplying the Water Bureau with 200 hydrants has been awarded to the EDDY VALVE CO., of Waterford, N. Y., at $6,470. List of bidders noted last week. Walter Mellus is City Engr.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., June 9, for furnishing, delivering and laying high pressure fire service mains and appurtenances in Allen, Broome, Bayard, Canal, Cherry, Chrystie Sts., etc., all in the district included between Houston St., Bowery, James St. and the East River. Plans and specifications are on file at the office of Engineering News, New York, for reference only.

*GLENS FALLS, N. Y.—We are officially advised that bids were received as follows on May 20 by the Board of Water Commissioners for constructing an earth reservoir dam, about 75 ft. high, with a concrete core wall, on the Butler Brook, about five miles from the city: Kasson Construction Co., Glens Falls, $126,375; Lee, Lehan & Co., Fort Edward, N. Y., $117,020; Shanley Morrisey, New York, $104,325; E. D. Baker, Binghamton, N. Y., $92,818; Sherman, Parker & Beebe, Utica, N. Y., $85,285; D. Cuozzo & Co., New York, $84,370; A. B. Purnell, Pittsburg, Pa., $83,270; Bunting Bull Co., New York, $82,646; Francis J. Boas, Philadelphia, Pa., $74,962; Linehan & Burnham, Glens Falls, $73,631; Kingsbury Construction Co., Sandy Hill, N. Y., $72,110. Howard M. West is Supt. W.-Wks.

SYRACUSE, N. Y.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of a steel standpipe. Bids are asked until 1.30 p. m., June 7, by the Clerk of the Board of Contract and Supply.

NEW BRUNSWICK, N. J.—The State Legislature has passed a bill granting permission to the city to construct a filtration plant. The citizens will be asked to vote on issuing bonds at the election in November. Fred. C. Schneider is City Surv.

WILKINSBURG, PA.—The PITTSBURG FILTER MFG. CO., Farmers' Bank Bldg., Pittsburg, has secured the contract for the proposed filtration plant of 10,000,000 gallons capacity for the Pennsylvania Water Co. W. C. Hawley is Ch. Engr.

LYNCHBURG, VA.—The Southern Ry. Co., W. H. Wells, Engr. of Construction, Washington, D. C., proposes constructing a reservoir on top of Candler's Mountain, four miles below Lynchburg, with a capacity of about 500,000 gallons.

WILMINGTON, N. C.—We are officially advised that Haselhurst & Anderson, Consulting Engrs., Candler Bldg., Atlanta, Ga., were retained on May 18 by the city to design and reconstruct systems of water-works and sewers and for which one half million dollars is immediately available. Surveys will be commenced at once.

CHESTER, S. C.—It is proposed to install new gravity filter plant, centrifugal pumps, sedimentation basin and extend the water mains and macadamize certain streets. Estimated cost, about $25,000. James Hamilton is City Engr.

GAFFNEY, S. C.—Bids will be received until June 1 by the Board Public Works, A. N. Wood, Chn., for constructing waterworks, consisting of pumping station, pump filter plant, stand-pipe, pipes, hydrants, valves, etc. William W. Lyon is Consulting Engr., 305 Duval Bldg., Jacksonville, Fla.

HAMPTON, GA.—The citizens on May 10 voted to issue $20,000 of bonds for waterworks and electric light plant. J. B. McCrary & Co, of Atlanta, are Engrs.

LEESBURG, FLA.—J. Y. Clark has secured a franchise for the construction of water-works here. B. F. Watts is Mayor.

JASPER, IND.—Bids will be received until June 7 by J. P. Schwenk, Town Clk., for a concrete reservoir, 113 x 96 x 17 ft.

*GLENCOE, ILL.—See item under Streets and Roads.

WAUKESHA, WIS.—The City Council on May 13 awarded contract for a new reservoir for the water-works to the ADVANCE CONSTRUCTION CO., of this city, at $3,283. Other bids were: Marquette Construction Co., Chicago, $6,850; Hoeffner & Co., Chicago, $6,466. The reservoir will be of concrete and have a capacity of 200,000 gallons. It will be located on North St., near the present reservoir. About thirty days will be required for the construction and it is understood that the work will commence at once.

SPARTA, WIS.—The Council on May 14 awarded contract for the new water tanks to the CHICAGO IRON & BRIDGE CO., 105th and Throop Sts., Chicago, at $6,332. There were six bids for the building of the water supply tank to replace the tank now in use. The bids ranged from the contract price to $10,500 for a tank of concrete structure. The new tank will be 40 ft. high and 50 ft. in diameter, with a storage capacity of over 400,000 gallons. The Chicago Iron & Bridge Co. stipulated that they would erect temporary tanks for the city's use during the construction of the new tank and would also furnish a cleaning apparatus with their bid without extra charge to the city.

MARSHALLTOWN, IOWA.—A new water storage tank of 100,000 gallons capacity, is to be built by the city this summer in order to better equalize the water pressure in the event of extra pressure being placed on the mains.

GREENFIELD, IOWA.—The citizens on May 10 voted to issue $25,000 of bonds for constructing water-works. C. D. Myers is Town Clk.

ALBERT LEA, MINN.—GREENE BROS., of Albert Lea, have secured the contract for auxiliary water mains, at $4,661. Bids were opened on May 13 by the city. William Barneck is City Engr.

SPOONER, MINN.—The citizens have voted to issue $10,000 of bonds for constructing water-works.

BAUDETTE, MINN.—The citizens have voted to issue $4,000 of bonds for waterworks, $5,000 for improving the electric light plant and $16,000 for improving streets and sidewalks.

MINNEAPOLIS, MINN.—The Water Committee of the Council on May 11 awarded contract to the PITTSBURG METER CO., East Pittsburg, makers of the Keystone meter, for 3,800 meters of various sizes at $7 each.

PLAINVILLE, KAN.—Bids will be received until June 14 by the city for the construction of water-works. Estimated cost, about $19,500. J. H. Burkholder, of Plainville, is Engr.

FORT RILEY, KAN.—Bids will be received by Capt. W. M. Whitman, Constructing Q. M., U. S. A., until 10 a. m., June 8, for extension to water supply mains and additional fire hydrants.

FORT LEAVENWORTH, KAN.—Bids will be received by Capt. William D. Davis, Constructing Q. M., U. S. A., until 11 a. m., May 28, 1909, for constructing 804 lin. ft. water mains, 4 and 6-in.; 1,116 lin. ft. sewers, 6 and 8-in.; 988 lin. ft. drains, 4, 6 and 12-in., and for two fire hydrants.

MEADE, KAN.—We are officially advised that the J. S. Worley Co., Engrs., Reliance Bldg., Kansas City, Mo., has prepared plans and specifications for a water-works plant here.

OMAHA, NEB.—The city has voted to issue $6,500,000 of bonds to purchase the plant of the Omaha Water Co. S. L. Etnyre is City Engr.

ST. EDWARD, NEB.—Bids will be received until June 11 by the village for the construction of water-works from plans of Charles F. Sturtevant, of Holdredge.

*CHEYENNE, WYO.—Bids will be received at the office of J. D. Wright, City Clk., until 2 p. m., June 15, for laying approximately five miles of 30-in., 16 miles of 20-in. and four miles of 16-in. c.-i. pipe, and doing all work necessary, to complete the water mains, such as ditching, laying, yarning, calking, backfilling, etc., in accordance with the specifications on file in the office of C. C. Carlisle, City Engr. Monthly estimates will be allowed and pipe, lead and jute packing will be furnished by the city; also the pipe distributed along the line.

HELENA, MONT.—Contracts have been awarded for furnishing headgates for use in connection with the Dodson Dam, and main canal, Milk River project, Montana, as follows: The NEW JERSEY FOUNDRY & MACHINE CO., New York, 15 gates, 3 ft. 11¼ ins. × 4 ft. 11¼ ins. clear opening, each with gate frame and guides, $1,035; the COFFIN VALVE CO., Boston, Mass., 15 gate stands and gate shafts, $3,000.

CARTHAGE, MO.—Bids will be received until 8 p. m., June 3, by the Board of Public Works for water pipe, hydrants and valves. Specifications can be obtained from W. A. Turner, Secy. Bd. M. A. Earl & Co. are Engrs., Carthage.

PARIS, TEX.—Bonds for $10,000 have been sold for the construction of the filtration plant. J. W. Crook, of Paris, is Engr.

LEON SPRINGS, TEX.—Bids will be received until June 1 by John L. Clem, Ch. Q. M., U. S. A., San Antonio, for sinking a tubular well to a depth of 2,000 ft. if required, near here.

HEREFORD, TEX.—The City Council has passed an ordinance providing for the issue of $25,000 of bonds for water-works.

GREENVILLE, TEX.—Contracts for installing compound pumping engine, bids opened on May 11, has been awarded to the FRED. L. PRESCOTT CO., of Milwaukee, Wis., at $7,515.

*OKEMAH, OKLA.—Bids will be received by the Chairman of the Town Board until June 15 for the purchase by the city of all of the pipe, fittings, hydrants and valves, together with all machinery necessary for the construction of a municipal water plant. Specifications can be had by addressing the O'Neil Engineering Co., Dallas, Tex.

*HARTSHORNE, OKLA.—Bids will be received by the city until June 7 for the purchase by the city of all of the cast pipe, standard fire hydrants, water gates, valves, pumps and boilers required in the construction of a system of water-works for the town; also for the purchase of cast pipe and fittings for a system of sewers. Specifications can be said by addressing the O'Neil Engineering Co., Dallas, Tex.

RYE, COLO.—Preliminary plans for an irrigation project to water 80,000 acres of land southwest of Rye, have been filed with the County Clerk at Pueblo by A. P. Sickman, of Denver. The canals will receive water from the Badito Reservoir, which receives its supply from the Huerfano River by overflow rights. Estimated cost of system, $235,000.

DENVER, COLO.—Francis W. Hosco, Engr., has filed at the office of the State Engineer plans for the Wagon Wheel Gap reservoir. Estimated cost, about $3,000,000. The dam will impound 43,307,992,900 cu. ft. of water and the area of the reservoir is given as 349,187,850 sq. ft.

WILBUR, WASH.—Bids will be received after June 14 for water-works improvements here. Estimated cost, about $10,000. L. A. Sheppler, of Wilbur, is Engr.

*SUNNYSIDE, WASH.—Bids will be received at the office of the United States Reclamation Service, Miller Bldg., North Yakima, Wash., until 2 p. m., July 30, for the construction of Sulphur Creek Wasteway, near Sunnyside. The work consists of the excavation and lining of about one mile of channel and involves the excavation of about 13,300 cu. yds. of material and the placing of about 2,100 cu. yds. of concrete and 130 cu. yds. of paving.

FORT STEVENS, ORE.—Bids will be received until June 4 by the Constructing Quartermaster, U. S. A., for the extension of branch water and sewer lines and board walks at this post.

PORTLAND, ORE.—Two reservoirs will be built on the west slope of Mount Tabor by the Water Board, to be part of the water system of the city. One will be on a level with the present high-service reservoir, and the second one will be the intermediate between the present lower reservoir and the higher one. Ground has been acquired for these reservoirs, and they will be built when plans have been completed. It is intended that they shall be part of the park system of Mount Tabor, and will be built with this in view.

LEWISTON, IDAHO.—The Alpowai Orchard Co. with 500 acres of growing fruit on the Snake River, between Lewiston and Riparia, will soon commence the construction of a pipe line irrigation system that will add 110 acres to the fruit acreage now under cultivation. The company has placed an order for 3,500 ft. of pipe to be used in the system to replace the present open canal in use at the Wawawai ranch.

MONTREAL, QUE.—See item under Streets and Roads.

CALGARY, ALTA.—The Calgary Colonization & Irrigation Co. has awarded a contract to FOLEY, WELCH & STEWART, for irrigation work to cost $1,000,000.

MOOSE JAW, SASK.—The City Council has decided to build a reservoir at Snowdy Springs to cost $40,000.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

WATERVILLE, ME.—Bids are asked by the Committee on Streets and Sewers until 7.30 p. m., June 1, for constructing a section of Hayden Brook sewer and appurtenances. John H. Burleigh is City Engr.

SALEM, MASS.—The Council on May 12 passed an ordinance providing for an appropriation of $40,000 for the construction of Castle Hill sewers.

NEW BRITAIN, CONN.—The House has passed the bill authorizing this city to issue $100,000 of bonds for sewers and streets.

NEW BRIGHTON (S. I.), N. Y.—Bids were received on May 18 by George Cromwell, Pres. Boro. of Richmond, for furnishing all the labor and materials required for constructing a temporary combined sewer with the necessary appurtenances through an easement in Lyman Ave., from Summer St. to Tomkins Ave., in Tomkins Ave., from Lyman Ave. to Valley St., and in Valley St., from Tomkins Ave. to Duer Ave., all being sewerage district No. 6A, Fourth Ward, together with all work incidental thereto: Joseph Johnson's Sons, West New Brighton, S. I., $38,900; Gore-Meenan Co., 206 Broadway, New York, $40,003; N. J. Quinlan, $47,415; John E. Donovan, 117 West 26th St., New York, $49,725; Sigareto & Bonnacci, $44,635.

SYRACUSE, N. Y.—We are officially advised that bids were received by the Intercepting Sewer Board on May 18 for Contract No. 4 for building Section No. 2 of the main intercepting sewer, together with lateral sewer and appurtenaces. H. J. Hamlin, Secy., and Glenn D. Holmes, Ch. Engr. The bidders and the amounts of their bids are as follows. Standard Construction Co., First National Bank Bldg., Chicago, Ill., $157,782; John Young, Syracuse, N. Y., $231,287; Merrill-Ruckgaber Co., 50 Church St., New York, $235,546; David Peoples, Betz Bldg., Philadelphia, Pa., $263,878; Transit Construction Co., Buffalo, N. Y.,

$295,792; Metropolitan Contracting Co., 95 Milk St., Boston, Mass., $334,037; MacArthur Bros. Co., 11 Pine St., New York, $400,431.

HOBOKEN, N. J.—Bids are asked by the Mayor and Council until 4 p. m., June 9, for the improvement of Madison St., between Eighth and Ninth Sts., by constructing a brick sewer and appurtenances. James H. Londrigan is City Clk.

NEWARK, N. J.—Bids will be received until May 27 by the Board of Street and Water Commissioners, Morris R. Sherred, Ch. Engr., for constructing the East Branch storm-water sewers, Section 1, and the Chelsea Ave. sewer.

NORTH BRADDOCK (Braddock post-office), PA.—Bids will be received at the office of C. A. Stewart, Boro. Engr., Municipal Bldg., Jones Ave., until 3 p. m., June 4, for the construction of a terra cotta pipe sewer in Rose alley, from Morse Alley to Lot No. 50, in Braddock Place plan of lots, about 650 lin. ft. of 8-in. pipe, three manholes, one lamphole.

BALTIMORE, MD.—Contract for the construction of storm-water drains was awarded on May 19 by the Board of Awards to the WILLIAM M. McCARTHY CO., of Pittsburg, at $82,800. The contract covers systems in Eutaw St., from German to Lee Sts.; Lee St. to Warner St., to Hamburg St, with branches running up Lombard, Pratt and Camden Sts.; in West Baltimore along Louisiana Ave., Baltimore St., from Gilmor St. to Fulton Ave. and in Fulton Ave., in Monroe St., from Baltimore to Fayette Sts., and in Mount St., from Baltimore to Lexington and Fayette Sts. Drains in North Baltimore will be laid in 24th St., Remington Ave., from 26th to 30th Sts.; in East Baltimore on McElderry St., from Washington St. to Lakewood Ave.; Jefferson St., from Washington St. to Lakewood Ave., Monument St., from Jefferson to McElderry Sts., and various smaller pieces. B. T. Fendall is City Engr.

WASHINGTON, D. C.—Bids were received as follows on May 24 by the Commissioners of the District of Columbia, for the construction of sewers in the District: (a) W. F. Brenizer & Co., (b) R. G. Gummel, (c) James & Coyle, (d) Sutler & Ready, (e) R. J. Beall Construction Co., (f) Lyons Bros., all of Washington. Section E, east side intercepting sewer, boundary to Brookland; ordinary excavation, (a) $9.90, (b) $9.50; sewer brick masonry, (a) $20, (b) $20; invert Brick masonry, (a) $25, (b) $30; concrete masonry "D," (e) $11, (b) 12. Extension of Rock Creek sewer to Military Road, ordinary excavation, (a) 75 cts., (b) 70 cts., (c) 70 cts., (d) 71 cts., (e) 5 cts., (f) 65 cts.; sewer brick masonry, (a) $15, (b) $14, (c) $14, (d) $14, (e) $13.50, (f) $17; 18-in. pipe, (a) 79 cts., (b) 85 cts., (c) 90 cts., (d) 90 cts., (e) 89 cts., (f) $1.10.

*WASHINGTON, D. C.—Bids will be received by the Commissioners of District of Columbia until noon, June 14, for the construction of sewers in the District of Columbia.

GAFFNEY, S. C.—Bids are asked until noon, June 1, by A. N. Wood, Chn. Bd. Pub. Wks., for constructing sanitary sewer system to include ten miles of 8-in. to 20-in. pipe, etc. William W. Lyonis Engr., 305 Duval Bldg., Jacksonville, Fla.

BIRMINGHAM, ALA.—The Street Committee of City Council on May 5 acted favorably on the ordinance providing for the construction of storm sewers. Estimated cost, about $300,000.

MOBILE, ALA.—We are officially advised that bids were received as follows on May 12 by the Board of Public Works for constructing storm sewers to comprise 33,000 lin. ft. of pipe, 10 to 30 ins. in diameter, and 30,000 lin. ft. 6-in. house connections, etc.: Sullivan & Long, Bessemer, Ala., $52,123; Dunn & Lallande, Birmingham, Ala., $56,821; S. D. Copeland & Son, Mobile, $60,613; Huston & Cunningham, New Orleans, La., $60,234; McPOLAND & O'GARA, Birmingham, $43,598 (awarded contract); C. W. Watson Construction Co., St. Louis, Mo., $53,943; Guild & Co., Chattanooga, Tenn., $51,837; Fred Hoffman, Rochester, Ind., $60,026; H. S. Bosler, Chattanooga, $47,859; J. W. Gurley, Mobile, $49,046; United Paving Co., Atlantic City, N. J., $51,501; J. B. Turner, St. Louis, $52,516; Byron, Souders & Co., Montgomery, Ala., $75,173; A. L. Petterson & Co., Macon, Ga., $52,083; Bigler Bros., Mobile, $52,123; Jeff Bros, Mobile, $48,705. Wright Smith is City Engr.

BELZONA, MISS.—The Board of Aldermen has selected Walter G. Kirkpatrick, of Jackson, to prepare plans for a system of house sewers, comprising about four miles of pipe sewers.

CANTON, OHIO.—Bids will be received until May 27 by the Board of Public Service, C. A. Zellars, Clk., for sewers in East Eighth and Munroe Sts., in all 3,163 lin. ft. 18, 20 and 24-in. pipe, twelve manholes, etc.

AKRON, OHIO.—Bids will be received by the Board of Public Service, Ray F. Hamlin, Secy., until May 27, for constructing a sewer in Maple St.

YOUNGSTOWN, OHIO.—Bids will be received until May 28 by the Board of Public Service, W. H. McMillin, Clk., for sewering Eagle and Caledonia Sts.

ASHTABULA, OHIO.—Contract for the construction of sewers in portions of Lake, Parsons, Spencer and other streets, in all about 4,295 ft. of 10 to 20-in. pipe sewers, bids opened on May 11, has been awarded by the city to FITZGERALD & CLIFFORD, of Ashtabula, at $6,657. A. J. Richardson is City Clk.

FINDLAY, OHIO.—U. K. Stringfellow, City Engr., is preparing plans for a sewerage system for the east side also in Carnohan Ave. and Marshall St.

NEWBURGH (Cleveland post-office), OHIO.—Bids are asked until noon, June 7, by E. T. Lawrence, Clk. Bd. of Service, Rice Ave. and Buckeye Road, for furnishing material and labor necessary for the construction of sewers, as follows: Buckeye Road, from the limits of the city of Cleveland to Rice Ave.; Section 1 Union St. sewers; Section 2 Union St. sewers. The William H. Evers Engineering Co. are Engrs., 237 The Arcade, Cleveland.

CINCINNATI, OHIO.—The citizens on May 11 voted to issue $500,000 of bonds for the construction of sewers and drainage.

INDIANAPOLIS, IND.—Plans for sewers were adopted by the Board of Public Works on May 12 as follows: Washington Boulevard, between 38th and 42d Sts., in first alley north of Roach St., and in the alleys east and west to Pierson Ave.

The Board of Public Works on May 12 awarded contract for the construction of a local sewer in Arlington St. to JOHN JENKINS at $1.14 per ft. B. H. Miller is City Engr.

CHICAGO, ILL.—The Board of Public Improvements on May 4 passed an ordinance providing for the construction of Belmont Ave. sewer. Estimated cost, $222,000. John J. Hanberg is Comr.

*GLENCOE, ILL.—See item under Streets and Roads.

APPLETON, WIS.—Bids are asked until 4 p. m., May 31, by E. L. Williams, City Clk., for constructing a sewer in ravine from Lawrence St. to the Fox River.

WATERTOWN, WIS.—W. F. Brunt, Hammond, Ill., was lowest bidder on May 11 for constructing sanitary and storm sewers, at $12,442. Engineer's estimate, $17,500. The Board of Public Works has recommended adoption of bid. Arnold Kraeft is City Engr.

BELOIT, WIS.—The Common Council has awarded contract for constructing storm sewers in Fifth and Second Wards to O'SHEA & O'SHEA, of Hammond, Ind., at $7,672. Robert Caldwell is City Engr.

CLEAR LAKE, IOWA.—We are officially advised that bids were received as follows on May 17 for constructing five miles of sanitary sewers: Advance Construction Co., Waukesha, Wis., $24,531; M. A. Camory, Harlan, Iowa, $20,769; J. W. Turner Improvement Co., Des Moines, Iowa, $20,515; Axelsen Bros., Clear Lake, $28,782; O'Farrel Construction Co., Dubuque, Iowa, $21,576; Dearborn & Jackson, Cedar Rapids, Iowa, $17,859; M. TSCHIRGE SONS, Dubuque, $15,647 (awarded contract); George M. King, Des Moines, $19,218. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

LINDSBORG, KAN.—Bids for sanitary sewers were opened on May 10 by the city. P. A. JOHNSON & CO., of Kansas City, Kan., were awarded contract at $28,532. Other bids received were: Lund & Cunyon, Blackwell, Okla., $39,286; W. A. Rees & Co., Fayetteville, Ark., $33,151; McIntyre & Teese Contracting Co., St. Louis, Mo., $30,000; Squires Electric Construction Co., Kansas City, Mo., $34,995; J. M. Chain & Co., Wichita, $33,922; T. G. Elbury, Hutchinson, $42,646; Buchanan & Steck, Salina, $31,788; O. A. McElvain & Co., McPherson, $29,705; E. M. Eby, Wellington, $30,150; George M. King Contracting Co., Des Moines, Iowa, $29,998; Dearborn & Jackson, Cedar Rapids, Iowa, $31,000; E. D. Reed, Clay Center, Kan., $35,603. H. A. Rowland is City Engr.

CASPER, WYO.—Bids are asked until noon, May 31, by Marion P. Wheeler, Town Clk., for furnishing, f. o. b. Casper, 4,000 ft. of first-class 8-in. vitrified sewer pipe and fittings. Justin T. Kingdon is City Engr.

LITTLE ROCK, ARK.—It is proposed to construct sewers in the Water Cross Improvement District. About $20,000 will be contributed by Pulaski County toward the work, the balance to be paid for by the city.

*HARTSHORNE, OKLA.—See item under Water Supply—Irrigation.

CRIPPLE CREEK, COLO.—The Cripple Creek Sewer Co. on May 10 filed incorporation papers, with a capitel of $300,000. The principal office will be at Cheyenne, Wyo., with a branch in Denver. The incorporators are J. H. Walton, George F. Burrage and C. W. Burdick.

*ALBUQUERQUE, N. MEX.—Bids will be received at the office of John B. McManus, City Clk., on or about July 10, for constructing sewers in Albuquerque. Proposals will also be considered on a cost-plus-a-percentage basis. Bids will be received on two basis: one in which the city furnishes all the material, the other where the contractor furnishes everything except c.-i. pipe, castings, etc. Samuel M. Gray, Providence, R. I., is Engr.

OAKLAND, CAL.—The Drainage and Sanitary Committee of Council has recommended for passage the ordinance providing for the construction of storm sewers and for the drainage of Broadway. Estimated cost, $50,000.

SACRAMENTO, CAL.—Bids will be received until June 1 by M. J. Desmond, City Clk., for constructing storm-water sewers.

MONTREAL, QUE.—See item under Streets and Roads.

STREETS AND ROADS.

PEMBROKE, N. H.—Bids will be received until May 29 by the State Highway Department, Concord, A. W. Dean, Engr., for constructing a trap rock road in Pembroke. Estimated cost, about $4,300.

DORCHESTER (Boston post-office), MASS.—Guy C. Emerson, Supt. Sts., awarded contracts on May 13, it is reported, for street improvements as follows: Repaving with granite blocks North St. to FRED S. & A. D. GORE CO., 1016 Adams St., at $10,408, and macadamizing Carmen St. to JOHN McCOURT & CO., at $3,202.

PROVIDENCE, R. I.—Bids will be received until June 2 by the State Board of Public Roads, Providence, John H. Edwards, Chn., for constructing sections of state highways in several towns, including Westerly, Coventry and Richmond, 46½ miles in all.

HARTFORD, CONN.—The Armory and Arsenal Committee, Henry Roberts, Chn., have received bids as follows for sundry work in connection with the state armory. Edward Balf Co., Hartford, macadam walks, grading, etc., $22,736; Alfred Farley, Hartford, street curbing, concrete walks, etc., $9,080; F. B. & W. H. O'Neil, Hartford, repairing river wall and laying new coping, $7,297; Alfred Farley, new iron fence, $665; Curtis & Dean, Hartford, two bridges, loading platform and steps, $8,934; New York, New Haven & Hartford R. R., spur track and number, $2,175; Hartford Electric Light Co., lights, etc., $1,990.

Plans for state road work have been received in the office of the State Highway Commissioner as follows: From A. B. Hill, Engr., 10,000 lin. ft. on the Litchfield Turnpike in the town of Woodbridge; from W. H. Knight, Engr., 20,600 lin. ft. on the Litchfield and New Milford Turnpike in the towns of Litchfield, Morris and Washington; from McElroy & Kershaw, Engrs., 17,000 lin. ft. on the Bridgeport and Easton Turnpike in the town of Trumbull.

HARTFORD, CONN.—Contracts for the construction of state road work, bids for which were opened at the office of the State Highway Commissioner on May 21, have been awarded as follows:

Town of East Windsor, 15,645 lin. ft. macadam-telford construction on the Hartford-Springfield Road: (a) macadam, lin. ft.; (b) telford, lin. ft.; (c) cobble gutters; (d) rubble drain, lin. ft.; (e) railings, lin. ft.: To THOMAS KEARNEY, Meriden, (a) $1.78, (b) $2.65, (c) 80 cts., (d) 75 cts., (e) 30 cts. Other bidders were: O. T. Benedict, Pittsfield, Mass., (a) $1.93, (b) $3, (c) 75 cts., (d) 85 cts., (e) 30 cts.; Pierson Engineering & Construction Co., Bristol, (a) $1.90, (b) $2.70, (c) 60 cts., (d) 60 cts., (e) 40 cts.; B. D. Pierce, Jr., Co., Bridgeport, (a) $1.93, (b) $2.85, (c) 79 cts., (d) $1, (e) 60 cts.; Connecticut Contracting Co., New Britain, (a) $2.00, (b) $3.18, (c) 50 cts., A. D. Ambrosia & Co., Hartford, (a) $2.68, (b) $3.37, (e) 43 cts.

Town of Middlebury, four sections gravel and graded roads, as follows: First section, 1,600 lin. ft. gravel-telford, to PIERSON ENGINEERING & CONSTRUCTION CO., Bristol, at 75 cts. for gravel and $1 for telford. Other bidders were: A. Brazos & Sons, Middletown, $1.85 and $2.40; Goodman & Trumbull, Litchfield, $1.10 and $2; Edward McManus, Waterbury, $1.05 and $1.66. Third section, 2,650 lin. ft. gravel, PIERSON ENGINEERING & CONSTRUCTION CO., at 87 cts. Other bidders were. A. Brazos & Sons, $2.85; Goodman & Trumbull, $1.94; Edward McManus, 90 cts. Fourth section, 1,050 lin. ft. gravel-telford, to PIERSON ENGINEERING & CONSTRUCTION CO., at 80 cts. for gravel and $1.23 for telford. Other bidders were: A. Brazos & Sons, $1.90 and $2.40; Goodman & Trumbull, $1.40 and $2.30; Edward McManus, $1.05 and $1.66.

Town of Enfield, 14,712 lin. ft. macadam-telford on Springfield Road, including 1,300 lin. ft. 12-in. tile sewer and two 15-in. and one 24-in. tile culverts, to A. BRIDGES SONS, Hazardville, $1.92 for macadam, $2.89 for telford, 48 cts. for cobble gutters. Other bidders were: A. Ambrosia & Co., $2.95, $3.42 and 53 cts.; Connecticut Contracting Co., New Britain, $2.24, $3.19 and 50 cts.; Pierson Engineering & Construction Co., Bristol, $2.40, $3.30 and 60 cts.

Town of Washington, 1,275 lin. ft. of gravel and retaining wall, to C. W. TRYON, Meriden, at $1.70 per lin. ft. for gravel and $4.50 per cu. yd. for wall. Other bidders were: Goodman & Trumbull, Litchfield, $2.35 and $3; B. D. Pierce, Jr., Co., Bridgeport, $2,900 (lump sum), and $4.75 for wall; A. Brazos & Sons, Middletown, Conn., $2.45 and $6.

These bids were also received for 2,699 lin. ft. of macadam construction in the town of North Haven, but the contract was not awarded: C. W. Tryon, $1.89 for macadam and $2.45 for telford; R. B. Davis, Hartford, $2.18 and $2.52; Lawrence Bruce, North Haven, $2.13 and $2.46.

HARTFORD, CONN.—Bids have been received as follows by the Board of Contract and Supply for laying gutters and curbs on Prospect Ave.: A. J. Langefeld & Co., Troy, N. Y., $4,575; Southern New England Paving Co., Hartford, $4,650; Bernardino & Silvestri, Hartford, $4,825; R. B. Davis, Hartford, $4,870; Hartford Paving & Construction Co., $5,075; A. S. Freeberg, Hartford, $5,075. The matter is held in abeyance pending an agreement with certain property holders on the west side of the avenue.

ALBANY, N. Y.—Bids were received as follows by the Board of Contract and Supply, Albany, on May 17, for the improvement of Main Ave., from Madison Ave. to Park Ave.: Holler & Shepard, Albany, $37,128; Edward F. Dillon, Albany, $25,985; John M. Holler, Albany, $25,291; Michael F. Dollard, Albany, $22,707; Mulderry Bros., Albany, $24,001. The contract was awarded to MICHAEL F. DOLLARD, Albany, at $22,707.

Bids were received on the same date by the Board as follows for the grading of Mercer St., from Lake Ave. to Quail St.: James H. Malcolm, Albany, $3,270; Michael F. Dollard, Albany, $2,987; James F. Campion, Albany, $2,890; Holler & Shepard, Albany, $3,285. The contract was awarded to JAMES F. CAMPION, Albany, at $2,890. Walter Melius is City Engr.

*GENEVA, N. Y.—Bids will be received by the Board of Public Works until 7.30 p. m., June 3, on the following items for street paving with macadam: Square yards of trap rock surface, 7,500; cubic yards earth excavation, 1,000; lineal feet of 12-in. c.-i. pipe for sewers, 480; lineal feet of 12-in. vitrified tile, 800; catch-basins, six. Advertised last week.

BROOKLYN, N. Y.—The following bids were opened on May 13 by the Park Board, Manhattan, for furnishing and delivering crushed trap rock and trap rock screenings in parkways, Borough of Brooklyn, about 6,750 cu. yds.. Joseph R. Boyer, 847 Boulevard, Long Island City, $1.48 per cu. yd.; Clinton Point Stone Co., 115 Broadway, $1.57; Jacob E. Conklin, 299 Broadway, $1.59; Manhattan Trap Rock Co., 30 Church St., $1.63.

TROY, N. Y.—The Board of Contract and Supply on May 11 awarded the contract for paving with brick a portion of Down St. to EDWARD WALSH, at $2.18 per sq. yd.

AMSTERDAM, N. Y.—Bids are asked until June 1 by the city for paving East Main St. with fireclay brick. About 7,200 sq. yds. will be required. F. E. Crane is City Engr.

*CAMDEN, N. J.—Bids will be received until 11 a. m., June 9, by the Board of Chosen Freeholders, Camden, Alfred L. Sayers, Dir., for building a stone road, 22 ft. wide, from Camden to Haddonfield, a distance of 4.13 miles, of either amiesite or asphaltum oil macadam. J. J. Albertson is County Engr. Advertised last week.

FREEHOLD, N. J.—Bids will be received by the Board of Chosen Freeholders of Monmouth County, George W. Patterson, Jr., Clk., until June 9 for building a gravel road in the Townships of Shrewsbury, Middletown and Holmdel. Everett F. Throckmorton, Broadway, Long Branch, is Engr.

*OCEAN CITY, N. J.—Bids will be received by the Board of Chosen Freeholders of the County of Cape May until noon, June 8, for constructing the second section of the Goshen Road, in all 2.603 miles. R. Fendall Smith is County Engr., Ocean City. Advertised last week.

ATLANTIC CITY, N. J.—Bids will be received by the Board of Chosen Freeholders, Memorial Hall, South New York Ave., until June 9, extension from June 2, for grading and graveling Cologone and Port Republic Road. E. D. Rightmire is County Engr., Bartlett Bldg., Atlantic City.

BAYONNE, N. J.—Bids will be received until May 27 by the Boulevard Commission, County of Hudson, Jersey City, J. C. Sweeney, Clk., for reconstructing the roadway of Hudson Buolevard, in Bayonne; also for constructing concrete curb and gutters, reconstructing and reinforcing the drainage system of certain sections.

Bids will be received until June 1 by the city for reimprovement of Broadway, from First St. to Morris Canal Bridge. There will be required about 78,200 sq. yds. of asphalt, bituminous concrete or bitulithic pavement on concrete foundation, with curb and other appurtenances. F. H. Dalrymple is City Engr.

*SOMERVILLE, N. J.—Bids are asked until 11 a. m., June 12, by the Board of Chosen Freeholders of Somerset County for grading and macadamizing four roads, aggregating 5.22 miles in length. Thomas F. Gibson is Dir.

CARLISLE, PA.—Bids are asked until May 31, by Joseph W. Hunter, State Highway Comr., Harrisburg, for the construction of 7,820 ft. of road from Market St. bridge to Camp Hill borough line in East Pennsboro Township.

ALLENTOWN, PA.—GEORGE H. HARDNER, Allentown, Pa., has been awarded contract, at $32,450, for rebuilding the Bethlehem Pike, the work including 1,000 ft. of concrete box gutters and 10,000 ft .of stone gutters.

SCRANTON, PA.—Bids will be received until May 29 by C. V. Terwilliger, Dir. Dept. Pub. Wks., at the office of the Mayor, for repairing and maintaining for a period of three and five years asphalt pavements on all streets, avenues, etc., upon which the guarantee has expired.

WILLIAMSPORT, PA.—Bids will be received until May 28 by the Highway and Sewer Committee of Councils for resurfacing with asphalt W. Fourth St., about 23,000 yds., and repaving same area with brick or wooden blocks. J. J. Galbraith is City Clk.

*HAVRE DE GRACE, MD.—Bids for grading and paving in certain streets in Havre de Grace, aggregating in area about 23,000 sq. yds., will be received by the Street Improvement Commission, City Council rooms, until noon, June 15, C. C. Pusey is Secy.

BALTIMORE, MD.—Bids are asked until noon, May 27, by the State Roads Commission, J. C. Bowerman, Secy., Union Trust Bldg., for building 23 sections of state highway, aggregating about 46 miles.

FORT WASHINGTON, MD.—Bids are asked until noon, June 1, by H. L. Pettus, Constructing Q. M., Takoma Sub-Station, Washington, D. C., for construction of macadam roads, concrete walks, cobblestone gutters, catch basins, and drains at Fort Washington.

PENSACOLA, FLA.—The WHIDDON CONSTRUCTION CO. has been awarded contract, at 25 cts. per cu. yds., for grading the streets where sidewalks are to be laid.

MOBILE, ALA.—We are officially advised that bids were received on May 12 by the Board of Public Works for 94,000 sq. yds. of wood block surface on a 4-in. concrete foundation, combined curb and gutter and cement curb. Contracts were awarded as follows: For wood-block pavement, to B. C. MILNER SONS CO., Louisville, Ky., at $185,368; for curb and curb and gutter, to CAFFYN & CARTER, Rochester, Ind., at $19,750. Wright Smith is City Engr.

SELMA, ALA.—Bids will be received until June 4 by Julien Smith, City Engr., for paving Washington and Alabama Sts. with brick, asphalt and granitoid on a 5-in. concrete foundation, about 10,000 sq. yds., and constructing granite curb, combined curb and gutters, etc.

*SCOTTSVILLE, KY.—Bids are asked until May 29, by the City Clerk for constructing about 15,000 sq. yds. of macadamized and graveled roadway, and two bridges. The bridges are about 12 to 15 ft. span, 16 ft. wide and of a total length of 40 ft. Estimated cost of improvements, $7,500. John Wilkes is Engr., 2 Berry Block, Nashville, Tenn.

HAMILTON, OHIO.—Bids will be received by the Commissioners of Butler County, Hamilton, until June 1, for constructing 1.36 miles of macadam road in Fairfield Township under the State highway law. Estimated cost, $6,939. James C. Wonders is State Highway Comr., Columbus.

JEFFERSON, OHIO.—Contract for macadam road in Monroe Township, bids opened on May 17, has been awarded to E. K. BENSON, of Conneaut, at $15,802. W. H. Cook is County Deputy.

WOOSTER, OHIO.—Bids will be received by the Commissioners of Wayne County, Wooster, until noon, June 3, for constructing one mile of brick paving in Baughman Township. Estimated cost, $12,824. James C. Wonders is State Highway Comr., Columbus.

PAULDING, OHIO.—Contracts for pike roads, bids opened on May 14, have been awarded as follows: To JOHNSON & LYNN, of Pauliding, for three roads, $32,581; C. W. RYAN, of Maumee, for two roads, $23,142; GUBBINS & POTTER, of Muncie, Ind., one road, $10,698; BOBENMYER, SHERRERD & CO., two roads, $33,122; WILLIAM SPRATT & CO., of Grover Hill, two roads, $15,349; J. B. CAREY, of Convoy, one road, $9,254; R. C. ROACH, of Waterville, one road, $10,273. L. S. Ream is Deputy County Audr.

CINCINNATI, OHIO.—Bids are asked until noon, June 11, by County Commissioners, Fred Dreihs, Clk., for the following county work: Under specifications No. 910, for tarvia on Reading Pike, between Reading and Sharon, in Sycamore Township.

NEWARK, OHIO.—Bids will be received by the Board of Public Service, A. C. Gundlach, Clk., until May 29, for paving N. Williams St., 3,725 sq. yds. brick pavement on 8-in. gravel foundation, sand fill; 3,192 lin. ft. 50 × 20-in. sandstone curb, or 3,192 lin. ft. artificial stone combined curb and gutter. C. H. Wells is City Engr.

TIPTON, IND.—The Commissioners of Tipton County will soon ask for bids for the construction of three miles of gravel road in Wildcat Township. J. F. Barrows is County Audr.

LAWRENCEVILLE, ILL.—KIRKPATRICK BROS., of Greenfield, Ind., have been awarded contract by the city for the Market St. improvement, at $18,347. Bids were opened on May 11. G. W. Courter, Mt. Carmel, is Engr. List of bidders noted last week.

*GLENCOE, ILL.—Bids are asked by the Board of Local Improvements until 8 p. m., June 1, for the following local improvements: Special assessment No. 164, approximate quantities, 21,000 lin. ft. of concrete cement sidewalk five feet in width, together with grading, foundation, etc., and 26,000 ft. B. M. of plank crossings; special assessment No. 165, approximate quantities, 3,450 ft. of 6-in. water main, 48 ft. of 4-in. water main, four fire hydrants with connections, six gate valves, 16 fittings and three connections with present mains; special assessment No. 167, approximate quantities, 2,750 ft. of 8-in. tile sewer with junctions, 100 ft. of w.-i. sewer with support, hangings, etc., eleven manholes and one flushing device. Frank A. Windes is Engr.

APPLETON, WIS.—Bids are asked until 4 p. m., May 31, by E. L. Williams, City Clk., for building sidewalks as ordered by the City Council.

BURLINGTON, WIS.—Bids are asked until 2 p. m., June 1, by P. J. Hurtgen, City Engr., for labor and materials for 6,620 sq. yds. brick paving on 6-in. concrete base, 3,453 lin. ft. cement curb and 1,960 cu. yds. excavation. Contractor also to arrange with Milwaukee Light, Heat & Traction Co. for 4,200 sq. yds. paving between tracks.

DES MOINES, IOWA.—The lowest bids opened by the City Council on May 10 for paving were as follows: West Fifth St. with asphalt, Bryant-Ford-McLaughlin Co., at $1.99 per sq. yd., and E. Maple St. with asphalt, O. P. Herrick, at $1.94½ per sq. yd.

BEDFORD, IOWA.—The following bids were opened on May 10 for paving Jefferson, Dodge and other streets, (a) 20,000 sq. yds. with block paving, 5-in. concrete and broken stone foundation, 1¾-in. sand cushion; (b) 5,655 cu. yds. excavation; (c) 8,000 lin. ft. new curb in streets, 5 × 24-in.; (d) 850 lin. ft. new curb in alleys, 4 × 20-in.: Burlington Construction Co., Burlington, (a) $2.12, (b) 30 cts., (c) 54 cts., (d) 40 cts.; Young Bros. Construction Co., St. Joseph, (a) $2.66, (b) 35 cts., (c) 49 cts., (d) 48 cts.; WILLIAM HORROBIN, Iowa City, (a) $1.80, (b) 32 cts., (c) 34 cts., (d) 34 cts. (awarded contract); Hamilton & Schwartz, Shenandoah, (a) $1.86, (b) 35 cts., (c) 35 cts., (d) 28 cts.; Fred M. Clark, Savannah, Mo., (a) $2.0785, (b) 25 cts., (c) 50 cts., (d) 40 cts.; J. C. Likes, Des Moines, (a) $1.96, (b) 30 cts., (c) 35 cts., (d) 35 cts.; M. Ford, Cedar Rapids, (a) $1.95, (b) 31 cts., (c) 38 cts., (d) 35 cts.; Independent Construction Co., Davenport, (a) $2.02, (b) 33 cts., (c) 53 cts., (d) 53 cts.; M. Tschirge & Sons, Dubuque, (a) $1.90, (b) 30 cts., (c) 40 cts., (d) 38 cts.; McCarthy Improvement Co., Davenport, (a) $1.87½, (b) 30 cts., (c) 39 cts., (d) 30 cts.

CRESCO, IOWA.—Contract for 9,000 sq. yds. brick pavement, bids opened on May 10, has been awarded to the O'FARRELL CONTRACTING CO., of Dubuque, at $1.74 per sq. yd.; also for 3,000 sq. ft. cement concrete curbing at 20 cts. per ft.

BAUDETTE, MINN.—See item under Water Supply—Irrigation.

FORT LEAVENWORTH, KAN.—Bids are asked until 11 a. m., June 10, by Capt. William D. Davis, Constructing Q. M., Fort Leavenworth, for terrace grading, roads, walks, etc., and approaches to Grant, Sherman and Sheridan Halls at Fort Leavenworth.

GRAND FORKS, N. DAK.—Bids are asked until June 7, readvertisement, by W. H. Alexander, City Audr., for constructing cement and slush walks.

ST. CHARLES, MO.—Contract for 38,768 sq. ft. of sidewalks, etc., bids opened on May 15, has been awarded by the city to the BEARDSTOWN CONSTRUCTION CO., of Beardstown, Ill., at $9,655. Carr Edwards is City Engr.

WALLA WALLA, WASH.—The City Council on May 6 awarded a paving contract of approximately 30,000 yds. to the R. S. BLOME CO., 79 Dearborn St., Chicago, Ill., at about $85,000.

BELLINGHAM, WASH.—Contract for Magnolia and Dock Sts.' asphalt pavement and concrete sidewalks was awarded on May 3 to the INDEPENDENT ASPHALT PAVING CO., at $37,873, and for Kentucky St. grading and concrete sidewalks to W. BROOKS, at $5,346.

EVERETT, WASH.—The County Commissioners have decided to ask for bids for the construction of the first mile section of the Mukilteo-Everett road.

PUYALLUP, WASH.—This place will spend the sum of $65,000 for street improvements.

MOUNT PLEASANT, UTAH.—It has been decided by the Commercial Club here to lay cement sidewalks.

SALT LAKE CITY, UTAH.—The City Council has authorized paving extensions amounting to approximately $150,000. L. C. Kelsey is City Engr.

MONTREAL, QUE.—The city has voted the following sum for the following civic improvements for 1909: Pavements, $1,000,000; sidewalks, $500,000; sewers, $153,000; pumping plant, $55,000.

LETHBRIDGE, ALTA. — BATCHELLOR, MARSHALL & SKARIN, Calgary, Alta., have been awarded contract for laying cement walks here for the city. Cost, $40,000.

LETHBRIDGE, ALTA.—The ratepayers have voted in favor of spending $40,000 for cement sidewalks.

VANCOUVER, B. C.—The Board of Works has arranged for the construction of 40 miles of concrete sidewalks, pavements and sewer extensions this year. Estimated cost, $70,000.

MANUFACTURING PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

FALL RIVER, MASS.—The Directors of the Flint Mill have decided to submit to the stockholders the proposition to increase the capital stock to $1,160,000 and to erect a mill of 50,000 spindles.

NEW BEDFORD, MASS.—Plans for additions and alterations to the plant of the City Mfg. Co., which it is estimated will cost in the neighborhood of $30,000, have been filed at the office of the Inspector of Buildings by Samuel F. Winsper, Supt., and a permit for the new building and alterations has been issued. The plans provide for an addition, 53 × 68 ft., to the present No. 1 Mill, and the erection of a new machine shop, 54 × 72 ft., and 1½ stories high. The addition to the mill will be a 3-story structure. Extensive alterations will be made to the present No. 1 Mill also.

NEW BRITAIN, CONN.—The North & Judd Mfg. Co. has had plans prepared for the construction of a foundry addition, one story high, 30 × 30 ft., of brick.

BRIDGEPORT, CONN.—The Locomobile Co. has had plans prepared for a building which will double the present capacity.

BRISTOL, CONN.—The Ingraham Co., clock manufacturers, has awarded to the H. WALES LINES CO., of Meriden, Conn., the contract for a 5-story addition, 136 × 38, mill construction throughout.

The C. J. Root Co. has awarded to C. J. WALDO the contract for a plant on Root's Island.

ROCHESTER, N. Y.—The bids received on May 12 by the State Commission in Lunacy, Albany, N. Y., for the construction of dispensary and chemical laboratory, mortuary and autopsy room; conduit-steam line to shops, stable and soap factory; sun rooms, women's building, etc., Rochester State Hospital, were as follows: Peter G. Hauck, Rochester, N. Y., $29,920; A. Fredwrich & Sons Co., Rochester, N. Y., $32,497; H. H. Edgerton, Rochester, N. Y., $30,202; Holler & Shepard, Rochester, N. Y., $29,240.

Leon Stern, Arch., 1017 Chamber of Commerce Bldg., has prepared plans for a 5-story shoe factory, 205 × 138 ft., brick, also power-house to be built on Canal St. by Utz & Dunn as an addition to the present shoe manufacturing plant.

BUFFALO, N. Y.—The Collaseus Cement Co. will erect a 1-story steel warehouse at its plant on the Buffalo River at Katherine St.

The Schneible Co., of New York and Chicago, will build a plant in Buffalo for manufacturing brewers' machinery at the corner of Elk St. and the New York, Chicago & St. Louis R. R. The building will be 50 × 250 ft., one and two stories high, of brick and cost $25,000. Joseph Schneible is Pres. The Schneible Co., New York, or care German-American Brewing Co., Buffalo.

LOCKPORT, N. Y.—The United Indurated Fiber Co., manufacturers of indurated fiber hollow ware specialties, are having plans prepared for several buildings which will be added to its plant at once.

NORTH TONAWANDA, N. Y.—The Rudolph Wurlitzer Mfg. Co., manufacturers of musical instruments, has let contract to the DUROLITHIC CO., of Buffalo, N. Y., for construction of three concrete factory buildings to be added to its plant. Cost, $75,000

OSWEGO, N. Y.—The Ames Iron Works are having plans prepared for a plant which the company intends to build here.

POUGHKEEPSIE, N. Y.—The Schatz Hardware Mfg. Co., formerly of Chappaqua, N. Y., will build a new plant here consisting of two factory buildings, each 80 × 260 ft., one story, brick, with steel truss roof, saw-tooth construction. P. M. Lloyd is Arch., Poughkeepsie.

HORNELL, N. Y.—The Erie R. R. Co. will build a large extension to its locomotive shops at Hornell to cost with equipment about $200,000. J. C. Stuart is Gen. Mgr., New York.

DUNKIRK, N. Y.—The American Locomotive Co. is having plans prepared for a new tank and paint shop at its Brooks plant here in addition to the new boiler shop and power-house now under construction.

The Marsh-Baker Co. have had plans prepared for a paper box factory to be erected at the corner of West Third and Lark Sts.

The United States Radiator Co. is having plans prepared for an addition to its plant to be used for the manufacture of steam boilers.

KINGSTON, PA.—Crane Bros., silk manufacturers, are preparing plans for an additional silk mill adjoining present plant on Elm St.

GROVE CITY, PA.—J. H. Meade, of New York of the J. H. Meade Co., manufacturers of radiators and gas logs, has been here for the past week in company with E. D. Comstock, of the Bessemer & Lake Erie R. R. Co., Pittsburg, looking over various sites suitable for a plant for the manufacture of the products of his company. He announced that he was favorably impressed with one of the sites, and considers the location of his plant in this city.

UNIONTOWN, PA.—The Cosmopolitan Engineering Co., Soho St., Pittsburg, manufacturers of ornamental and structural iron, has completed plans for the erection of a manufacturing plant on the Baltimore & Ohio R. R., Uniontown.

HUGHESVILLE, PA.—The M. Gillis Wagon Co. is arranging to build a 3-story factory building. William A. Ball is Mgr.

ERIE, PA.—The American Sterilizer Co. will erect a brick and steel factory, two stories high, 100 × 125 ft., at the corner of Twelfth and Plum Sts.

BETHLEHEM, PA.—The Bethlehem Foundry & Machine Co. will build an addition of brick and steel to the foundry building at its plant in South Bethlehem. J. George Lehman is Mgr.

KINGSTON, PA.—Crane Bros., Inc., will build a silk mill on Elm St., 50 × 200 ft., two stories high. W. B. Crane is Pres.

TARENTUM, PA.—The Pittsburg Metallic Lath Co. will build a manufacturing plant on the Allegheny Valley R. R. at Arnold St. The main building will be 200 × 312 ft.

PHILADELPHIA, PA.—See item under Buildings.

WINCHESTER, VA.—The Virginia Woolen Co., Winchester, will build an additional structure to provide space for sufficient machinery to about double the capacity of its plant. This company is now operating 2,880 spindles, 40 broad looms, dyeing and finishing equipment, etc. It employs 150 persons.

SHREVEPORT, LA.—The American Creosoting Works, E. L. Powell, Vice-Pres., New Orleans, La., has purchased 35 acres of ground in East Shreveport (Bossier City) and will erect a creosoting plant having a capacity of 10,000 cross ties per day. Mr. Powell states that construction work will begin at once and that the plant will be in operation in 60 days. The plant, when completed, will employ a force of from 30 to 40 men.

MARION, IND.—The Western Motor Co. will establish and equip a large factory at this city on a 12-acre site secured from the city. Bids will be in order as soon as plans are completed.

BRAZIL, IND.—The Factory Promoting Club will soon ask for bids for the erection of a factory building.

The Knight-Brinkeroff Piano Co., of Charlotte, Mich., has ordered plans and will soon ask for bids for the erection of a factory, foundry, dry-kill and power-house buildings in this city.

HAMMOND, IND.—Peter Crumpacker and associates are preparing to ask for bids for the construction and equipment of a brewery plant.

SHEBOYGAN, WIS.—The Hand Knit Hosiery Co. has purchased a tract of land in this city extending a quarter of a block at the corner of Huron Ave. and 14th St. A 3-story brick mill, 40 × 129 ft., will be erected on the property. This company was incorporated in 1905 with a capital of $25,000, which was recently increased to $50,000. The output of the plant consists of fine and coarse hosiery, mittens and gloves, a specialty being made of lumbermen's knit goods.

ST. PAUL, MINN.—W. J. HOY & CO., general contractors, city, have been awarded the contract for the general construction of a 2-story brick and stone, fireproof factory for the Drake Marble & Tile Co., city. It will be 116 × 260 ft. Cost, $35,000.

SPOKANE, WASH.—Albert Held, Arch., is drawing plans for a building 120 ft. square for the Spokane Bakery Co., to be erected at Broadway and Post St., at a cost of $40,000, exclusive of equipment. The most modern of bakery machinery will be installed.

CHIPPAWA, ONT.—The plant of the British Canadian Smelter Co., at Chippawa, which was destroyed by fire on May 15, at a loss of $50,000, will be rebuilt on a larger scale at once.

TORONTO, ONT.—Henry Disston & Sons, Inc., are having plans prepared for machine shop and warehouse, which will be added to the saw manufacturing plant here.

PORT COLBORNE, ONT.—The Hadley, Shaw Co. will build an elevator and flouring mill at the entrance to the Welland Canal here. Cost, about $500,000.

WINNIPEG, MAN.—The CARTER-HALLS-ALDINGER CO., of this city, has been awarded the contract for the construction of the works for the Dominion Bridge Co., Montreal. Price, $27,000.

MISCELLANEOUS CONTRACTS.

(* *denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—Items regarding irrigation, canal projects, etc., will be found under Water Supply—Irrigation.

RIVER WALL, ETC.—Hardford, Conn.—See item under Streets and Roads.

DITCH.—Rensselaer, Ind.—Bids asked by M. B. Price, Drainage Comr., until June 3, for the construction of a large ditch in Jasper County.

DITCH.—Frankfort, Ind.—Bids asked by W. A. Robinson, Drainage Comr., until 2 p. m., June 1, for the construction of the Rodkey ditch in Clinton County.

DREDGING.—Portland, Me.—Bids are asked until noon, June 4, by Lt. Col. George A. Zinn, Corps Engrs., U. S. A., Portland, for dredging in Union River, Me.

*DREDGING.—Port Chester, N. Y.—Bids are asked by Col. W. M. Black, Corps Engrs., U. S. A., until noon, June 7, for dredging in Port Chester Harbor.

DREDGING.—New Haven, Conn.—Bids will be received until noon, June 15, by Maj. Harry Taylor, Corps Engrs., U. S. A., New London, for dredging in New Haven.

PARK.—New York, N. Y.—Bids are asked by the Park Board until 3 p. m., June 3, for constructing Chelsea Park, in the Borough of Manhattan, the City of New York.

DREDGING.—Monticello, Ind.—JOHN & JAMES BURK, of Lafayette, have secured a contract to dredge Honey Creek in White County, for a distance of 25 miles, at $85,000.

DREDGING.—Chicago, Ill.—Bids will be received by Maj. Thomas H. Rees, Corps Engrs., U. S. A., until 10 a. m., June 11, for redredging turning basins in Chicago River.

SWEEPING MACHINES.—New York, N. Y.—Bids are asked by W. H. Edwards, Comr. St. Cleaning, until noon, June 9, for furnishing and delivering parts for sweeping machines.

*DREDGING.—New York, N. Y.—Bids are asked by Col. S. W. Roessler, Corps Engrs., U. S. A., until noon, June 24, for dredging in Bay Ridge and Red Hook channels, New York Harbor.

TELEPHONES.—Belmont, Man.—Bids will be received by Raymond R. Houghton, Secy., until noon, May 31, for the construction of a telephone system for the municipality of Strathcona, Man.

STEAMER ALTERATIONS.—New York, N. Y.—Bids are asked by the Armory Board until 2 p. m., June 2, for alterations, etc., to the U. S. S. "Granite State," foot of 97th St., Boro. of Manhattan.

*CEMENT.—Cincinnati, Ohio.—Bids are asked by Col. Wm. T. Rossell, Corps Engrs., U. S. A., Cincinnati, Ohio, until 2 p. m., June 21, for furnishing about 14,000 bbls. of American Portland cement at Fernbank, Ohio.

WHARF.—Prince Rupert, B. C.—The Provincial Government has awarded a contract to the WESTHOLME LUMBER CO. for the construction of the wharf here, at $70,000. The piles will be of steel with reinforced concrete.

*SEAWALL.—New York, N. Y.—Bids are asked until noon, June 25, by Col. S. W. Roessler, Corps Engrs., U. S. A., for completing the seawall and continuing embankment construction at Governor's Island, New York Harbor.

REPAIRING FERRYBOATS.—New York, N. Y.—Bids are asked by Allen N. Spooner, Comr. of Docks, until noon, June 7, for repairing the municipal ferryboats or other floating ferry property and furnishing and delivering supplies therefor.

*DREDGING.—New York, N. Y.—Bids will be received by Col. D. W. Lockwood, Corps Engrs., U. S. A., until noon, June 8, for dredging in Shrewsbury River, Woodbridge Creek, Keyport Harbor, Matawan Creek and Raritan and South River, N. J.

SHELTER STATION.—New York, N. Y.—Bids are asked by the Park Board until 3 p. m., June 3, for the erection and completion of a shelter and comfort station located on the west side of Riverside Drive, opposite Grant's Tomb, Boro. of Manhattan, New York City.

SLOPE MINE.—Hellwood, Pa.—The Penn-Mary Coal Co. has awarded contract for sinking the new slope mine here to JOHN JOHNSON, of this place. The slope will be over 300 ft. in length, and will open a new mine for the company. No contracts for the equipment of the mine have been ordered.

STEEL STEAMERS.—Washington, D. C.—Bids are asked until 2 p. m., June 15, by the Quartermaster General, U. S. A., Washington, for construction and complete equipment of one to four single screw steel steamers for harbor service of the War Department; length, 120 ft., breadth, 24 ft.; depth, 12 ft. 6 ins.

WHARVES.—Fort William, Ont.—Bids will be received by Nap. Tessier, Secy., Dept of Public Works, Ottawa, Ont., until 4.30 p. m., June 4, for the construction of wharves at the mouth of the Mission River here. Plans and specifications may be seen at the Department, and also at the offices of the resident engineers for the Dominion at London, Toronto, Quebec and Montreal.

FLOATING BATHS.—New York, N. Y.—Bids were received as follows on May 17 by John F. Ahearn, Pres. Boro. of Manhattan, for repairs and alterations to baths and pontoons for the free floating baths; repairing and painting the roofs and painting free floating baths. N. B. Smythe, 1123 Broadway, $13,600; Perry Dry Deck Co., $14,175; George F. Stewart, foot 26th St., Brooklyn, $13,490. The above bids have been rejected and new bids for the same work will be received June 1.

AIR COMPRESSORS.—Washington, D. C.—Bids are asked by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., June 26, for furnishing and installing three 5,000-cu. ft. air compressors and accessories at the navy yards at New York, Philadelphia and Mare Island, Cal. Specifications are on file at the office of Engineering News, New York.

RETAINING WALLS.—New Brighton (S. I.), N. Y.—Bids are asked by George Cromwell, Pres. Boro. Richmond, until noon, June 22, for furnishing all the labor and materials required for constructing retaining walls and appurtenances on Jay St. and South St., being part of the street improvements authorized for the approaches to the St. George Ferry, together with all work incidental thereto.

RETAINING WALL.—Charleston, S. C.—The following bids were received on May 3 for constructing about 4,000 ft. concrete retaining wall at Charleston and for filling in behind same, about 670,000 cu. yds., with material dredged from river, J. H. Dingle, City Engr.: Simons-Myrant Co., Charleston, $230,140; Tucker, Vinton & Co., New York, $227,467; Coastwise Dredging Co., Norfolk, $217,407; McLean Contracting Co., Baltimore, Md., $234,120, and Bowe & Page, Charleston, $206,098.

*CONCRETE WALLS.—Louisville, Ky.—Bids were received as follows May 1 by Capt. Lytle Brown, Corps Engrs., U. S. A., for concrete walls, etc., at lock and dam at Grand Rapids, Wabash River: Ohio River Contract Co., Evansville, Ind., $52,268; The Ohio Concrete Co., Cincinnati, Ohio, $30,-698; Knobloch & Shelton, Erie, Pa., $31,-988; Roetzel & Chipman, Evansville, Ind., $22,009; Mason & Hanger Co., Richmond, Ky., $42,413. Itemized prices are given this week under Contract Prices.

EXCAVATING.—Boston, Mass.—Bids were received as follows on May 18, by the Metropolitan Park Comn., 14 Beacon St., Boston: William H. Ellis, Boston, $116,200; Antonio G. Tomasello, Dorchester, $116,200; Charles R. Gow Co., Boston, $112,000; B. Perini Co., Ashland, $107,800; Bruno & Patitti, Boston, $91,000; John J. Falvey, Somerville, $88,900; Coleman Brothers, Boston, $84,000; Coughlin & Shiels Co., Boston, $81,200; AUGUSTE SAUCIER, South Framingham, Mass., $45,500 (awarded contract). John R. Rablin is Engr.

TREE GUARDS, ETC.—New York, N. Y.—Bids are asked until 3 p. m., June 3, by the Park Board, for furnishing and delivering 200 12-in. and 25 20-in. expanded metal tree guards (No. 1, 1909) for parks, Boro. of the Bronx; for furnishing and delivering 1,000 cu. yds. of loam or top soil on the Harlem River Driveway, in the Boro. of Manhattan, and 1,500 cu. yds. garden mold for St. Mary's Park, Boro. of the Bronx, and for rebuilding cribwork and filling in bank on the easterly side of the Harlem River, in Macomb's Dam Park, in the Boro. of the Bronx.

PIER.—New York, N. Y.—Bids were received on May 21 by Allen N. Spooner, Comr. of Docks, for preparing for and building a new pier between 31st and 32d Sts., Boro. of Brooklyn, to be known as the 31st St. Pier: Harry B. Wheeler, 23 Clinton St., Brooklyn, $174,587; George W. Rogers, $209,-900; Snare & Triest, $183,820; E. DeV. Thompkins, $261,000; George B. Spearin, $192,462; Sanford & Brooks, $208,312; Northeastern Construction Co., $223,400; John J. Haggerty, $213,000; P. Sanford Ross, $224,-500; Jenks Anderson Co., $197,323; R. P. & J. H. Staats, $196,725; Phoenix Construction Co., $195,897.

*CEMENT.—Wheeling, W. Va.—Bids were received as follows on May 14 by Capt. F. W. Alstaetter, Corps Engrs., U. S. A., for furnishing and delivering about 13,000 bbls. of American Portland cement for Dam No. 19, Ohio River (per bbl.): Alpha Portland Cement Co., Easton, Pa., $1.33; The Atlas Portland Cement Co., New York, $1.37½; J. P. Jones Co., Wheeling, W. Va., $1.37; The Superior Portland Cement Co., Cincinnati, Ohio, $1.32; Lehigh Portland Cement Co., Cleveland, Ohio, $1.43; The Miller Supply Co., Huntington, W. Va., $1.37½; Alma Cement Co., Wellston, Ohio, $1.35; Universal Portland Cement Co., Pittsburg, Pa., $1.38.

*IRON FENCE.—Boston, Mass.—Twenty-four bids for building about 7,000 lin. ft. of fence along the Boston side of the Charles River Basin, from Cambridge bridge to Charlesgate West, were opened by the Charles River Basin Commission on May 10. The lowest bidder was the Vulcan Rail & Construction Co., North Ninth St., Brooklyn, N. Y., at $13,246. The next two lowest bidders were the Belmont Iron Works of Philadelphia and the Walworth Construction & Supply Co., of Boston. Their bids were, respectively, $15,790 and $15,977. The highest bid received was that of $29,750, submitted by the George D. McLaughlin Co., of Boston. Hiram A. Miller is Ch. Engr.

*CEMENT.—Wheeling, W. Va.—Bids were received as follows on April 23, by Capt. F. W. Alstatter, Corps Engrs., U. S. A., for furnishing and delivering about 9,000 lbs. of American Portland cement for Dam No. 26, Ohio River, (a) cement in barrels, (b) allowance for sacks: Alpha Portland Cement Co., Easton, Pa., (a) $1.48, (b) 7½ cts.; Miller Supply Co., Huntington, W. Va., (a) $1.45, (b) 7½ cts.; Superior Portland Cement Co., Cincinnati, Ohio, (a) $1.40, (b) 7½ cts.; Atlas Portland Cement Co., New York, N. Y., (a) $1.5364, (b) 7½ cts.; Lehigh Portland Cement Co., Cleveland, Ohio, (a) $1.49, (b) 7½ cts.; Cleveland Builders Supply Co., Cleveland, Ohio, (a) $1.42, (b) 7½ cts.; Edison Portland Cement Co., New York, N. Y., (a) $1.48, (b) 7½ cts.; Universal Portland Cement Co., Pittsburg, Pa., (a) $1.47, (b) 10 cts.; Ironton Portland Cement Co., Ironton, Ohio, (a) $1.50, (b) 10 cts.

MEMORIAL.—Albany, N. Y.—The design of Herman Atkins MacNeil, sculptor, of College Point (L. I.), N. Y., for a Soldiers' and Sailors' Memorial to be erected at the entrance to Washington Park, Albany, has been accepted, after competition with other sculptors. Lord & Hewlett, of New York, are associated with Mr. MacNeil as architects. The monument will cost $100,000. The successful design provides for a Doric ensemble, a granite block 22 ft. long, 20 ft. high and 6 ft. through, upon a base of three low steps. Around the faces extends a frieze of figures in relief, representing the various branches of the service, infantry, cavalry, artillery and sailors; the figures being 6 ft. in height and cut in the granite. In front of the block is the female figure representing the nation, 9 ft. high, standing before a bronze chair, holding in one hand a sword and in the other are olive branches. The oblong approach to the structure extends 70 ft. east and west. The other sculptors invited to compete were: Adolph Alexander Weinman, Karl Bitter, Henry M. Shardy and Lorado Taft.

DRAINS.—Houston, Tex.—Bids for the work necessary to establish an effective drainage system in the territory designated as the Almeda Drainage District No. 2 were opened in the office of George F. Horton, Engr., on May 3. The bid of Kinnear Bros. & Thornburgh, of Columbus, Ohio, amounting to $150,531, is the lowest submitted. Four bids, two of which were only on a portion of the work, were submitted. The bidders on the entire contract were J. B. Arpin, $151,495; Kinnear Bros. & Thornburgh, $150,531. Those submitting proposals on a portion of the work were W. M. Sherwood, $143,050; North Branch Ditching Co., $70,250. The Columbus firm, in connection with their bid, submitted a proposition to take the drainage district bonds in payment for the work. The Almeda Drainage District is comprised of 81,360 acres of land lying between Brays Bayou and Clear Creek. It extends east as far as the Galveston, Houston & Henderson R. R., and west to connect with the Dairy Drainage District. The drainage work is in the hands of a Commission composed of John Swingle, Chn., A. L. Parker and Frank Peck. Bonds to the extent of $200,000 have been issued, which bonds are to be used in paying for the work in the district.

*BARGE CANAL.—Albany, N. Y.—Bids are asked by F. C. Stevens, Supt. of Public Works, Albany, until noon, June 22, on three additional barge canal contracts, as follows: Contract 30, which is for the river and land line of the canal from Little Falls to Sterling Creek, Herkimer County, a distance of 14.62 miles, including the construction of Lock No. 18 at Jacksonburg, guard gates and Dam No. 14 at Herkimer and a retaining dam at Frankfort, together with all appertaining construction, but not including the machinery for operating the locks; engineer's estimate is $2,650,500. Contract No. 36, for furnishing 18 winches for movable dams in the Mohawk and Genesee Rivers, as follows: In the Mohawk River at Scotia, Rotterdam, Crane's Village, Amsterdam, Tribes Hill, Yosts, Canajoharie and Fort Plain, and in the Genesee River at Rochester; engineer's estimate is $44,600. This work was formerly advertised, but on bids were received. Contract No. 42, which is for constructing the canal from the Herkimer-Oneida county line to a point just east of Oriskany Road, in Oneida County, a distance of 8.06 miles. Under the contract Lock No. 20, with its approaches, is to be constructed, together with several bridges, spillways, stream entrances, dive culverts, new river channels and other incidental work, but does not include operating machinery for the lock. The completion date is 30 months from execution of the contract, and the engineer's estimate is $1,312,814. Frank M. Williams is State Engr., Albany.

FOREIGN CONTRACTS.

DRILLING MACHINES.—Transvaal.—Bids will be received until July 9 by the Department of Land and Irrigation, Pretoria, Transvaal, addressed to Chairman of the Tender Board, P. O. Box 376, Pretoria, Transvaal, for furnishing portable non-traction percussion rope drilling machines capable of drilling a hole of 6-in. diam. to a depth of 1,000 ft. James R. Leisk, Acting Chn., Tender Board, Law Courts Bldg., Pretoria.

*BUILDINGS.—China.—The Chinese Government, through its representatives, invite bids for the erection and completion of a group of buildings to be used as a Bureau of Engraving and Printing in Peking, China, in accordance with plans and specifications prepared by Milburn, Heister & Co., Archs., Home Life Bldg., Washington, D. C. Plans and specifications are on file at the following places: Architects' office, Washington, D. C.; Chinese Consulate, New York City; Chinese Consulate, San Francisco, Cal.; Chinese Legation, London, England; Chinese Legation, Berlin, Germany; the Ta Ching Government Bank, Peking, Tientsin, Shanghai, Canton, China. Bids from America and Europe must be filed with the Chinese Legation at Washington, D. C., on or before July 15th. Advertised in Engineering News.

CONTRACT PRICES.

*CONCRETE WALLS.—Louisville, Ky.—The following itemized bids were received from (A) Ohio River Contract Co., Evansville, Ind.; (B) The Ohio Concrete Co., Cincinnati, Ohio; (C) Knobloch & Shelton, Erie, Pa.; (D) Roetzel & Chipman, Evansville, Ind.; (E) Mason & Hanger Co., Richmond, Ky., by Capt. Lytle Brown, Corps Engrs., U. S. A., for constructing concrete walls, etc., at lock and dam at Grand Rapids, Wabash River:

	(A)	(B)	(C)	(D)	(E)
1,297 cu. yds. concrete	$19.00	$12.25	$13.95	$11.25	$16.00
Rock excavation	1.75	3.50	3.00	3.00	3.50
3,782 cu. yds. crib excavation	2.50	.78	1.34	.40	2.00
2,936 cu. yds. earth excavation	1.50	.78	.64	.35	1.00
881 cu. yds. embankment	1.00	.78	.55	.35	.70
1,462 cu. yds. backfill	1.00	.78	.37	.20	.70
7,000 cu. yds. dredging	1.00	.78	.37½	.50	.70
800 cu. yds. stone filling (dam)	1.20	1.20	.97	.25	2.00
1,207 cu. yds. stone filling (walls)	3.00	1.20	2.07	.55	2.50
Total	$52,268	$30,828	$31,968	$22,009	$42,413

U. S. POSSESSIONS.

*SUPPLIES.—Panama.—Bids are asked until 10.30 a. m., June 29, by Capt. F. C. Boggs, Corps Engrs., U. S. A., Washington, D. C., for the following: Castings and structural materials to be embedded in masonry for all mitering lock gates; cylindrical, gate, automatic stop and check valves and accessories, pipe and fittings, ladder rungs, anchor bolts, washers, wicket girder seats and guides, anchorages, etc., for above gates. (Circular No. 513).

CONCRETE DRY DOCK.—Hawaii.—Bids were received as follows on March 26 by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Washington, D. C., for constructing Dry Dock No. 1, of concrete, Pearl Harbor: C. M. Leach, P. O. Box 2285, Boston, Mass., $1,295,321; San Francisco Bridge Co., 681 Market St., San Francisco, Cal., $1,760,000; Edward Malley, 1384 McAllister St., San Francisco, Cal., $1,800,000; E. J. Lord, Honolulu, H. T., $1,792,000; Pacific Construction Co., 16 California St., San Francisco, Cal., $1,779,440; McArthur Bros. Co., 11 Pine St., New York, N. Y., $1,905,000; W. N. Concanon Co., 433 Monadnock Bldg., San Francisco, Cal., $1,930,000; Cotton Bros. & Co., 241 Bacon Bldg., Oakland, Cal., $1,961,284; H. E. Talbott Co., Reibold Bldg., Dayton, Ohio, $2,164,522; S. Pearson & Son, Inc., Long Island City, N. Y., $1,941,500.

EXAMINATIONS.

STEAM ENGINEER.—Macon, Ga.—The U. S. Civil Service Commission announces an examination on June 16, to secure eligibles from which to make certification to fill a vacancy in the position of Second-Class Engineer, $900 a year, in the Custodian Service at Macon, Ga., and vacancies requiring similar qualifications as they may occur throughout the United States. Age limit, 18 to 55 years. Application Form 1052.

INSPECTOR OF HULLS.—Galveston, Tex.—The U. S. Civil Service Commission announces an examination on June 2-3, to secure eligibles from which to make certification to fill a vacancy in the position of Local Inspector of Hulls of Steam Vessels, $1,500 a year, in the Steamboat-Inspection Service, Galveston, Tex., and vacancies requiring similar qualifications as they may occur in that service throughout the United States. Age limit, 25 to 55 years. Applicants should at once apply to the U. S. Civil Service Commission, Washington, D. C., for application Form 1087 and Form 1405.

ELECTRICAL EXPERT.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on June 9, to secure eligibles from which to make certification to fill a vacancy in the position of Electrical Expert (wireless telegraphy), in the Bureau of Equipment, Navy Dept., at a salary of $3,000 a year, and vacancies requiring similar qualifications as they may occur.

Competitors will not be assembled for any of the tests.

The duties of the appointee to this position will be as follows: To have charge of the laboratory tests of all instruments and apparatus pertaining to wireless telegraphy; the standardization of circuits and instruments used in wireless; the development of special apparatus and methods of wireless signalling suited to special conditions, and of new forms of sending and receiving circuits; to inspect the various wireless stations and to make the necessary measurements of their electrical constants; to carry on quantative experimentation and original investigation in wireless telegraphy, and, in general, to carry out such work as may be necessary for the development of the science. Age limit, 21 years. Application Form 304 and special form. Applications must be filed prior to closing hour on June 9.

For other Proposal Advertisements see pages 51, 52, 54, 56, of Advertisements and Construction News page 178.

SEWERS.

Albuquerque, N. Mex.

Sealed proposals will be received at the office of the City Clerk of the City of Albuquerque, New Mexico, on or about July 10, 1909, for constructing sewers in Albuquerque, New Mexico.

Proposals will also be considered on a cost-plus-a-percentage basis. Bids will be received on two basis: One in which the City furnishes all the material; the other where the contractor furnishes everything except cast iron pipe, castings, etc.

Plans and specifications will be ready for inspection on or about June 5, 1909, and can be obtained from the City Engineer by depositing a certified check for Fifty Dollars ($50.00) payable to the City Treasurer of Albuquerque. Said check to be returned to the contractor on return of the plans, etc.

Approximate quantities are: 103,407 feet of 8-inch sewers, 8,970 feet of 10-inch sewers, 4,160 feet of 12-inch sewers, 2,790 feet of 15-inch sewers, 9,360 feet of 18-inch sewers, 3,400 feet of 20-inch sewers, 2,080 feet of 24-inch sewers, 5,940 feet of 30-inch sewers, 4,120 feet of 36-inch sewers, 2,269 feet of 42-inch sewers, relaying 180 feet of 10-inch sewers, 340 manholes, 92 flush tanks, Pumping Station, two 10-inch Vertical centrifugal pumps, two electric motors and five ejector stations and ejectors.

FELIX H. LESTER,
Mayor.
JOHN B. McMANUS,
City Clerk.
JAS. N. GLADDING,
City Engineer.
SAMUEL M. GRAY,
Consulting Engineer,
Providence, R. I.

IMPROVING SIDEWALKS, WATER MAINS AND SEWERS.

Glencoe, Cook Co., Ill.

Public notice is hereby given that the Board of Local Improvements of the Village of Glencoe, Cook County, Illinois, will, on Tuesday, the first day of June, A. D., 1909, at 8 o'clock P. M., in the Council Chamber in the Village Hall in said village, open bids for the following local improvements, for which assessments have been confirmed by the County Court of Cook County, Illinois, viz.:

Special assessment No. 164. Approximate quantities, 21,000 lineal feet of concrete cement sidewalk five feet in width, together with grading, foundation, etc., and 26,000 feet board measure of plank crossings.

Special assessment No. 165. Approximate quantities, 3,450 feet of 6-inch water main, 48 feet of 4-inch water main, 4 fire hydrants with connections, 6 gate valves, 16 fittings and 3 connections with present mains.

Special assessment No. 167. Approximate quantities, 2,750 feet of 8-inch tile sewer with junctions, 100 feet of wrought-iron sewer with supports, hangings, etc., 11 manholes and 1 flushing device.

Drawings and specifications for said improvements may be examined and bidding blanks obtained, at the office of the Village Clerk, Glencoe, Illinois.

Each bid for each improvement must be sealed separately and delivered prior to the time above stated, and must be accompanied with cash or a certified check payable to the order of the President of said Board in his official capacity, in the amount equal to at least 10 per cent. of the aggregate amount of such bid.

The contract for each improvement will be let as a whole.

Contractors will be paid in special assessment bonds drawing 5 per cent. interest.

The Board reserves the right to reject any and all bids.

Glencoe, Illinois, May 22, 1909.

Board of Local Improvement of the Village of Glencoe, Cook County, Illinois.

By WALTER C. HUGHES,
President.
Attest:
GRANVILLE D. HALL, Secretary.
FRANK A. WINDES, Engineer.
GORDON A. RAMSAY,
Village Attorney.

SEWER OUTLETS.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
Incorporated.

Sealed proposals for the construction of Section "A" of the Northwestern Sewer, Contract No 42, of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, June 25th, 1909.

The work will consist of the construction of a 6 ft. 6 in. reinforced concrete sewer outlet into the Ohio River at Shawnee Park.

This section is 390 ft. long and will include about 1,000 cu. yds. of concrete and about 2,000 ft. of piles.

This contract will be followed in the near future by another of similar character but of larger size, and greater length.

Sealed bids should be endorsed "Proposal for Section "A," Northwestern Sewer," and addressed to the Commis-

sioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

W. C. NONES, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
Incorporated.

Sealed proposals for the construction of Section "C"-2 of the Beargrass Intercepter, Contract No. 41, of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, June 18th, 1909.

The work will consist mainly of building about 2,720 feet of sewer, 5 ft. 2 in. in diameter in trench not over 28 ft. in depth, and including about 2,500 cu. yds. of concrete and 152,000 lbs. of steel.

Plans and specifications may be seen at the office of the Commissioners and at the office of Harrison P. Eddy, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposal for Sec. "C"-2, Beargrass Intercepter," and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

W. C. NONES, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

HEATING AND VENTILATING PLANT.

Lead, S. Dak.

Sealed proposals will be received by the undersigned at Lead, South Dakota, until 7 p. m., June 11, 1909, for the furnishing and installing of complete blast steam heating and ventilating system with central boiler plant, for its High School and Assembly Hall buildings, in accordance with plans and specifications now on file with the Clerk of the Board of Education. Above bids shall include as a separate item, bids for erecting the building with stack for housing the boiler plant, or separate bids may be submitted therefor.

Separate bids will also be received for installing radiation in the Central School building, in accordance with provisions of above plans.

Contractor will furnish surety bond for guaranty of results and a certified check for five (5%) per cent. of the bid must accompany proposal, for the proper execution of contract and bond, if awarded.

Plans and specifications can be seen at the office of Engineering News.

The Board of Education reserves the right to reject any or all bids. Proposals must be made out in prescribed form, and must be addressed to:

THE BOARD OF EDUCATION,
CARRIE M. VOIGT, Clerk.

PROPOSALS FOR CASTINGS AND Structural Material to be Embedded in Masonry for all Mitering Lock Gates; Cylindrical, Gate, Automatic Stop and Check Valves and Accessories, Pipe and Fittings, Ladder Rungs, Anchor Bolts, Washers, Wicket Girder Seats and Guides, Anchorages, etc., for above Gates.—Sealed proposals will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 a. m., June 29, 1909, at which time they will be opened in public, for furnishing the above-mentioned articles. Blanks and general information relating to this Circular (No. 513), may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State Street, New York City; 316 Hibernia Bank Building, New Orleans, La., and 1086 North Point Street, San Francisco, Cal.; also from the U. S. Engineer Offices in the following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Md.; Philadelphia, Pa.; Pittsburg, Pa.; Boston, Mass.; Buffalo, N. Y.; Cleveland, Ohio; Cincinnati, Ohio; Chicago, Ill.; St. Louis, Mo.; Detroit, Mich.; Milwaukee, Wis.; St. Paul, Minn.; Chattanooga, Tenn.; Louisville, Ky.; Mobile, Ala., and Galveston, Tex.; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.—F. C. BOGGS, Captain, Corps of Engineers, U. S. A., General Purchasing Officer.

PAVING.

Bayonne, N. J.

Sealed proposals will be received and opened by the Council of the City of Bayonne, N. J., at a meeting to be held at the City Hall on Tuesday, June 1, 1909, at 8.00 P. M., for all of the labor and material for the re-improvement of Broadway from First St. to the Morris Canal Bridge.

There will be required about 78,200 sq. yds. of paving to be laid on a concrete foundation, together with curbing and other appurtenances.

Bids are asked for a paving surface of either asphalt, bituminous concrete or bitulithic pavement.

All bids must be on the regular forms provided for the purpose; plans and specifications for the work are on file in the office of the City Engineer where blank forms of proposal or any further information can be obtained.

The amount of bond required is $50,000 and the time allowed for completion is 150 days.

The Council reserves the right to reject any or all bids.

W. C. HAMILTON,
City Clerk.
F. W. DALRYMPLE,
City Engineer

OUTSIDE LIGHTING.

Middletown, N. Y.

Sealed proposals for outside lighting at Middletown State Homeopathic Hospital, Middletown, N. Y., will be received by the State Commission in Lunacy, Capitol, Albany, N. Y., up to 3 o'clock P. M., on Wednesday, June 9th, 1909, when they will be opened and read publicly.

Proposals shall be accompanied by a certified check in the sum of $150, and the contractor to whom the award is made will be required to furnish surety company bond in the sum of $1,000. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the Middletown State Homeopathic Hospital, Middletown, N. Y., and at the office of the State Architect. Complete sets of plans and specifications will be furnished to bidders upon reasonable notice to and in the discretion of the State Architect, Franklin B. Ware, Albany, N. Y.

Dated Albany, N. Y., May 20, 1909.

T. E. McGARR, Secretary,
State Commission in Lunacy.

MACADAM ROADS.

The Board of Chosen Freeholders of Somerset Co., N. J., will meet at the court-house in Somerville, N. J., on Saturday, June 12th, 1909, at 10 A. M., to receive, until 11 A. M. and not after, bids for grading and macadamizing four roads, aggregating 5 22-100 miles in length.

Plans, specifications and cross-sections may be seen and estimates of quantities and further details obtained at the office of State Commissioner of Public Roads at Trenton, N. J., and at office of Joshua Doughty, Jr., County Engineer, No. 22 Elm St., Somerville, N. J.

THOMAS E. GIBSON,
Director.

Somerville, N. J., May, 1909.

WAR DEPARTMENT, Constructing Quartermaster's Office, U. S. Army, 265 Summer Street, Boston, Mass., May 10, 1909.—Sealed proposals, in triplicate, will be received in this office until 10 o'clock A. M., June 10, 1909, and then opened for the construction, including plumbing, heating and electric wiring and fixtures of one double Brick Barrack; one double set Brick Lieutenant's Quarters; one four set Brick Officer's Quarters; one double set N. C. O. Quarters; one double set Firemen's Quarters; at Fort Strong, Long Island, Boston Harbor, Mass. Plans can be seen and specifications, blank forms and full information may be obtained at this office; a deposit of $25.00 required for plans and specifications; deposit will be returned to bidder on return of plans and specifications here. Plans, specifications, etc., are on file in office of the Chief Quartermaster, Department of the East, Governor's Island, New York. The United States reserves the right to reject any or all proposals. Envelopes should be endorsed "Proposals for Public Buildings, Fort Strong, Mass., and addressed to CAPTAIN R. H. ROLFE, Constructing Quartermaster, Boston, Mass.

GAS HOLDER.

Kingston, Can.

Sealed tenders addressed to H. B. R. Craig, City Engineer, and marked "TENDERS FOR GAS HOLDER" will be received up to 12 o'clock noon, the 19th day of June next, for the repair of the concrete gas holder tank belonging to the Corporation of the City of Kingston, Canada.

Information and general specifications may be obtained upon application to the undersigned.

The lowest or any tender not necessarily accepted.

(Signed) H. B. R. CRAIG,
City Engineer.

WATER PLANT.

Okemah, Okla.

Bids will be received by the chairman of the town board of Okemah, Oklahoma, and by him publicly opened on June 15th, A. D., 1909, for the purchase by said city of all of the pipe, fittings, hydrants and valves, together with all machinery necessary for the construction of a municipal water plant in the town of Okemah. Specifications can be had by addressing the O'NEIL ENGINEERING COMPANY, Dallas, Texas.

WATER-WORKS AND SEWERS.

Hartshorne, Okla.

Bids will be received by the city of Hartshorne, Oklahoma, and by them, publicly opened on the 7th day of June, A. D., 1909, for the purchase by said city of all of the cast-iron pipe, standard fire hydrants, water gate valves, pumps and boilers required in the construction of a system of water-works for said town; also for the purchase of sewer pipe and fittings for a system of sewers. Specifications can be had by addressing the O'NEIL ENGINEERING CO., Dallas, Texas.

CENTRAL HEATING PLANT.—Office of Constructing Quartermaster, Fort Sill, Okla., May 20, 1909.—Sealed proposals, in triplicate, subject to the usual conditions, will be received at this office until 10 o'clock A. M., June 21, 1909, and then publicly opened, for the installation of a central heating plant operated either with hot water, vacuum, or low-pressure steam, and including all machinery necessary to operate the same, and the complete circulating system radiators, etc. The boilers will not be included in the proposals. Plans, specifications, blank proposals, etc., will be furnished on application to this office. Application must be accompanied by a certified check for $25, which check will be returned to bidders upon return of plans and specifications to this office. The U. S. reserves the right to accept or reject any or all bids. Proposals must be marked "Proposal for central heating plant" and addressed to CAPT. DAVID L. STONE, Constructing Q. M., Fort Sill, Okla.

WASHINGTON, D. C., May 13, 1909.—Sealed proposals will be received at the office of the United States Reclamation Service, Miller Building, North Yakima, Washington, until 2 o'clock p. m., July 30, 1909, for the construction of Sulphur Creek Wasteway, near Sunnyside, Washington. The work consists of the excavation and lining of about one mile of channel and involves the excavation of about 13,300 cubic yards of material and the placing of about 2,100 cubic yards of concrete and 180 cubic yards of paving. For particulars address the United States Reclamation Service at Washington, D. C.; at Miller Building, North Yakima, Washington; or at Sunnyside, Washington. R. A. BALLINGER, Secretary.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 22, 1909.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 30th day of June, 1909, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post office and court house at Moscow, Idaho, in accordance with drawings and specification, copies of which may be had at this office or from the Custodian of site at Moscow, Idaho, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

U. S. ENGINEER OFFICE, Army Building, New York, N. Y., May 25, 1909.—Sealed proposals for completing the sea wall and continuing embankment construction at Governor's Island, New York Harbor, will be received at this office until 12 o'clock noon, June 25, 1909, and then publicly opened. Information furnished on application. S. W. ROESSLER, Col. Engrs.

OFFICE OF THE COMMISSIONERS, D. C., Washington, D. C., May 24, 1909.—Sealed proposals will be received at this office until 12 o'clock noon, June 14th, 1909, for the construction of sewers in the District of Columbia. Forms of proposals, specifications and necessary information will be obtained from Chief Clerk, Engineer Department, District Building, Washington, D. C. Room 427 HENRY B. F. MACFARLAND, HENRY L. WEST, WM. V. JUDSON, Commissioners, D. C.

U. S. ENGINEER OFFICE, Room 802, Army Building, 39 Whitehall Street, New York City, May 22, 1909.—Sealed proposals for dredging in Shrewsbury River, Woodbridge Creek, Keyport Harbor, Hatawan Creek, and Raritan and South Rivers, N. J., will be received at this office until 12 M., June 8, 1909, and then publicly opened. Bids for any or all of these works will be considered. Information furnished on application. D. W. LOCKWOOD, Colonel, Engrs.

U. S. ENGINEER OFFICE, Cincinnati, Ohio, May 22, 1909.—Sealed proposals for furnishing about 14,000 barrels of American Portland cement at Fernbank, Ohio, will be received here until 2 p. m., June 21, 1909, and then publicly opened. Information on application. WM. T. ROSSELL, Col., Engrs.

U. S. ENGINEER OFFICE, Army Building, New York, N. Y., May 24, 1909.—Sealed proposals for dredging in Bay Ridge and Red Hook channels, New York Harbor, will be received at this office until 12 o'clock noon, June 24, 1909, and then publicly opened. Information furnished on application. S. W. ROESSLER, Col. Engrs.

U. S. ENGINEER OFFICE, Room F-7, Army Building, New York, N. Y., May 27, 1909.—Sealed proposals for dredging in Port Chester Harbor, N. Y., will be received at this office until 12 M., June 28, 1909, and then publicly opened. Information on application. W. M. BLACK, Col., Engrs.

Situations Open

WANTED.—Several experienced structural draftsmen. NEW ENGLAND STRUCTURAL CO., Everett, Mass. 21-2t

WANTED—Structural draftsmen and designers for bridge and building department of leading railroad. Must have technical education and be good draftsmen. Salaries, $100.00 to $125.00 per month. Applications should state education, experience and references. Address "M. A. 21," Engineering News, New York. 21-1t

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OPPORTUNITY, see issue (May 6th), place not filled, am not looking for clerks, draftsmen, superintendents or engineers unless also with required ability to help in management and handling of medium sized contracting business. Address "R. A. 18," Engineering News, New York. 21-1t

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